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Organized in 1933 and incorporated in 1970, EEI provides a principal forum where electric utility people exchange information on developments in their business, and maintain liaison between the industry and the Federal government. Its officers act as spokesmen for investor-owned electric utility companies on subjects of national interest.

Since 1933, EEI has been a strong, continuous stimulant to the art of making electricity. A basic objective is the "advancement in the public service of the art of producing, transmitting, and distributing electricity and the promotion of scientific research in such field." EEI ascertains factual information, data and statistics relating to the electric industry, and makes them available to member companies, the public, and government representatives.

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STATISTICAL YEARBOOK

OF THE ELECTRIC UTILITY INDUSTRY/1982

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Washington, D.C. 20036

Publications Prepared By The Statistical Department

Analysis of Fuel For Electric Generation: Fuel Burned Under Boilers and By Internal Combustion Engines.
Fossil fuel data are presented by state, Census Division and total United States, by type of fuel burned (coal, oil and natural gas) under steam boilers and by internal combustion engines. Costs per kilowatt-hour, by fuel type; generation; and thermal heat content are provided for the current and four preceding years. Published annually in late summer. 9 p.

Year-End Electric Power Survey.
Reports results of survey conducted as of December 31, 1982, and seven years of past history. Covers the total electric utility industry of the contiguous U.S., including investor-owned systems, rural electric cooperatives, government owned. Power supply data including peak loads, capability to meet loads, kilowatt-hour requirements, load factors, and comparison between summer and winter seasons. Also contains three years of history on the manufacture of heavy electric power equipment showing quarterly orders, shipments, and backlogs of ordered equipment. Published annually in the summer. 40 p.

Annual Electric Power Survey.
Reports results of survey conducted as of April 1, 1983. Contains one or two years of history and ten-year projections on fuel use, capabilities, peak loads, and reserve margins (all for both the summer and winter seasons for each of the nine reliability councils and for total contiguous U.S.), and annual kilowatt-hour requirements and resulting load factors. Also includes information on the manufacture of heavy electric power equipment in the U.S. and foreign-made equipment to be imported by U.S. electric power systems, orders and shipments during the first quarter of the year and backlogs as of April 1. Scheduled generating additions by region are individually identified in an appendix. Published annually in the fall. 44 p.

Catalogue of Investor-Owned Electric Utility Companies Operating in the United States.
Complete reference of investor-owned company names and addresses, arranged on a state basis according to location of principal office. Holding companies and systems, and jointly-owned companies are cross-referenced with operating subsidiaries. Ranking of companies according to number of ultimate customers is presented. Published annually in the winter. 50 p.

Digest of Utility Financial Ratios.
Provides a method of calculating approximately 100 ratios used by the utility industry in analyzing financial reports. Categories of ratios include Earnings and Return; Common Dividend; Coverages, Interest and Preferred Dividend; Balance Sheet; Revenue and Sales; Expense; Tax; Plant; Depreciation; other ratios, such as funds used during construction as percent of earnings and per share, capital expenditures, etc. Prepared by EEI Financial Ratios Subcommittee of the Statistical Committee. 28 p.

EEI Pocketbook of Electric Utility Industry Statistics.
A pocket-sized quick reference of national electric industry data; some dating from 1902 to the present. Categories include data on installed capacity and generation; capital and finance; sales, revenue and customers; fuels; private and public ownership. Published annually in late fall. 37 p.

Magnetic Tape of Tables Contained in the Statistical Yearbook.
The reel of magnetic tape (standard label, 6250 BPI, EBCDIC) contains 72 files corresponding to all of the tables printed in the hard-copy version of the Statistical Yearbook. Each file is identified by a data set name in the form: TABLEnn. Documentation is provided showing positional layouts of the data elements in each file. The incorporation of this tape into a data base will facilitate the retrieval and manipulation of series dealing with most aspects of the electric utility industry.

Problems and Limitations of Intercompany Comparisons of Investor-Owned Electric Utilities.
Assists analysts and others who may wish to make industry-wide comparisons of investor-owned electric utilities. The report illustrates some of the main factors that can facilitate valid inter-company differences in performances. The Executive Summary briefly examines some of the more important factors that lead to performance differences between companies. The Discussion Section covers in greater detail many of the factors that can generate invalid and inaccurate comparisons. Prepared by EEI Problems and Limitations Subcommittee of the Statistical Committee. 51 p.

Statistical Releases.
Yearly subscription includes: 1) Electric Output, issued weekly for nine geographic divisions and total U.S.; data for latest 52-week period and calendar year to date; latest quarterly data for installed capacity generation and customer and sales information 2) Source and Disposition, issued quarterly, presents latest sources of electricity, including net generation, net imports of electricity, and net amounts available for distribution; customers, sales, and revenues by class of electric service; average use and revenue data for residential service 3) Advance Release, issued in summer, includes selected tables that appear later in Statistical Yearbook 4) Statistical Yearbook of the Electric Utility Industry.

Statistical Yearbook of the Electric Utility Industry.
Data compiled from company reports, and other sources, on operational and financial aspects of the total electric utility industry. Categories include national and state statistics on installed capacity; electric generation and supply; sales, revenue and customers by class of service; investor-owned data are presented for operating and related ratios; fuel use; financial; and general economics series. Prepared under the general guidance of the EEI Statistical Committee; published annually in the fall. 97 p.

Order cards located in back of book.

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Scope and Coverage

This publication presents data on the electric utility industry, including generation, energy sales, customers and revenues, financial and economic. These data are collected and compiled from various sources as indicated on page 3. In all sections, except the Financial Section, data are presented for Investor-owned Electric Utilities and the Total Electric Utility Industry. Dissimilarity between the investor-owned and the publicly-owned segments of the electric utility industry would make overall financial data incompatible even if it were available. Therefore, in the Financial Section, data are shown for Investor-owned Electric Utilities only.

1982 in Review

The installed generating capacity of the electric utility industry for 1982 was 650,105,000 kilowatts, an increase of 2.4 percent over 1981.

No. of units added during 1982

Hydro	Conventional Steam	Nuclear Steam	Internal Combustion
16	30	1	3

Statistics on capacity and generation from pumped storage are included in hydroelectric and those for gas turbine are included in steam conventional.

The electric utility industry continued to reduce its dependency on foreign oil for generating electricity. A comparison between 1982 and 1981 presents the following information:

- Generation of electricity in the United States decreased about 2.3 percent.
- Generation by coal increased from 59.3 percent to 61.9 percent of total thermal generation.
- Generation by oil decreased to 7.6 percent from 10.2 percent of thermal generation (a reduction of approximately 28.9 percent in barrels of oil consumed).

Total utility revenues from ultimate customers amounted to $121.1 billion in 1982, an increase of 9.5 percent over the previous year. Revenues from residential sales accounted for approximately 39 percent of total revenues, while sales to commercial and industrial customers accounted for about 58 percent.

Energy sales to ultimate customers totaled 2,093,592 million kilowatt-hours, a decrease of approximately 2.7 percent over the previous year.

Total number of ultimate customers, as of December 31, 1982, was 95,285,568 or an increase of 1.4 percent from a year earlier. Approximately 89 percent of this total can be attributed to customers in the residential classification. The average annual bill per residential customer was $560.85 or 6.45¢ per kilowatt-hour consumed. Average annual residential use equalled 8,696 kilowatt-hours.

During 1982, electric operating revenues increased by 7.9 percent to $101.7 billion. Contributing to the increase in revenues were rate increases granted during 1981 and 1982.

Electric operating expenses increased by 7.1 percent to over $83.4 billion. All of the major components of operation and maintenance expenses increased except fuel cost which decreased 1.4 percent over 1981. The cost of fuel represented 59.8 percent of total operation and maintenance expenses, down from 63.2 in 1981. Electric operating income of $18.3 billion represented 18.0 percent of total operating revenues.

The allowance for funds used during construction (AFUDC), a non-cash item of current income totaled $6.8 billion in 1982. AFUDC as a percentage of net income after preferred dividends and before common dividends was 53.8 percent.

Total interest charges aggregated $13.0 billion, up 8.5 percent over 1981 reflecting increased debt issues and a higher average rate. The cost of new long-term debt issued during 1982 has been estimated to be about 15.1 percent.

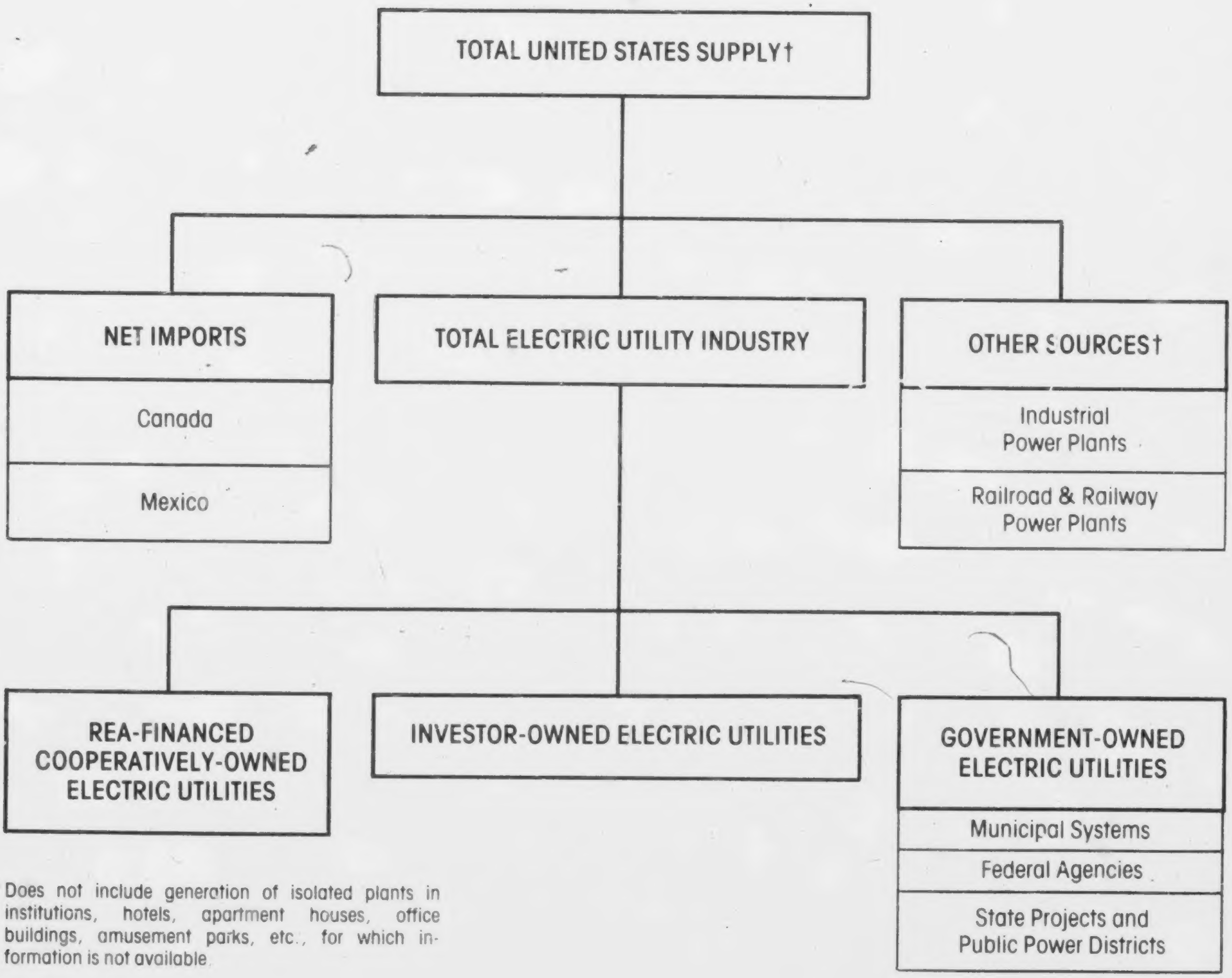
Since 1972, long-term debt as a percentage of total capitalization gradually declined from 53.7 percent to 49.3 percent in 1982. Correspondingly, common capital stock equity increased from 34.6 percent to 39.3 percent by year-end 1982.

The average common stock payout ratio was 70.9 percent in 1982. Ten years ago it was 64.6 percent.

The earned return on average common equity increased to 13.6 percent from 12.6 percent in 1981. However, the rate of return for rate cases decided in 1982 by state commissions was estimated at 15.9 percent. During 1982, the investor-owned electric utilities were granted a total of $7,629 million in rate increases on an annualized basis. This is 8.5 percent below the $8,341 million granted in 1981.

The investor-owned electric utilities raised $15.5 billion in new long-term financing during 1982. Of this total, 54.3 percent was by long-term debt, 32.2 percent was common stock and the remaining 13.5 percent was preferred stock. Additionally, the industry raised an estimated $2.0 billion in new common stock as a result of participation by stockholders in dividend reinvestment plans. This included not only dividend reinvestment, but also supplementary cash contributions by the stockholders.

UNITED STATES SOURCES OF ELECTRIC GENERATION BY TYPE OF OWNERSHIP


TOTAL UNITED STATES SUPPLY†
NET IMPORTS
Canada
Mexico
TOTAL ELECTRIC UTILITY INDUSTRY
OTHER SOURCES†
Industrial Power Plants
Railroad & Railway Power Plants
REA-FINANCED COOPERATIVELY-OWNED ELECTRIC UTILITIES
INVESTOR-OWNED ELECTRIC UTILITIES
GOVERNMENT-OWNED ELECTRIC UTILITIES
Municipal Systems
Federal Agencies
State Projects and Public Power Districts

† Does not include generation of isolated plants in institutions, hotels, apartment houses, office buildings, amusement parks, etc., for which information is not available.

SUMMARY

	Total Electric Utility Industry			
			Change	
	1982	1981	Amount	Percent
GENERATING CAPACITY—SECTION I (Kw in Thousands)				
Installed Name Plate at Beginning of Year	634,808	613,695	21,113	3.4
Added During Year	....	....	....	....
Retired During Year	....	....	....	....
Net Adjustments*	....	....	....	....
Balance at December 31	650,105	634,808r	15,297	2.4
ELECTRIC POWER SUPPLY—SECTION II (Kw in Thousands)				
Capability at Time of Summer Peak Load (Contiguous U.S.)	577,827	572,056	5,771	1.0
Non-Coincident Summer Peak Load (Contiguous U.S.)	414,909	428,295r	(13,386)	(3.1)
Margin of Reserve (Contiguous U.S.)	39.3%	33.6%r		
GENERATION—SECTION III (Kwhr in Millions)				
Hydro	309,213	260,684r	48,529	18.6
Conventional Steam	1,646,883	1,758,660r	(111,777)	(6.4)
Nuclear Steam	282,773	272,674r	10,099	3.7
Internal Combustion	2,343	2,795r	(452)	(16.2)
Total Generation	2,241,211	2,294,812r	(53,601)	(2.3)
Purchases from Industrial Sources	10,454	8.401	2,053	24.4
Imports from Canada and Mexico	34,284	35,416r	(1,132)	(3.2)
Total Energy Input†	2,285,949	2,338,629r	(52,680)	(2.3)
FUEL—SECTION IV				
Average Cost of Fuel per net Kwhr	2.46¢	2.42¢	0.04¢	1.7
Lbs. of Coal per Net Kwhr Generated	0.996	0.992	0.004	0.4
Average Btu per Net Kwhr Generated	10,517	10,506	11	0.1
ENERGY—SECTION V (BTUs in Quadrillion)				
Annual Production of Energy	63.56p	64.43r	(0.87)	(1.4)
Total Energy Supply & Disposition	75.55p	78.30r	(2.75)	(3.5)
ENERGY SALES—SECTION VI (Kwhr in Millions)				
Residential	729,240p	730,479r	(1,239)	(0.2)
Commercial	514,087p	521,698r	(7,611)	(1.5)
Industrial	770,670p	819,641r	(48,971)	(6.0)
Street and Highway Lighting	14,188p	14,683r	(495)	(3.4)
Other	65,407p	64,173r	1,234	1.9
Total Sales to Ultimate Customers	2,093,592p	2,150,674r	(57,082)	(2.7)
Exports to Canada and Mexico	3,540p	1,832r	1,708	93.2
Energy Accounted for but Not Sold	12,420	11,530	890	7.7
Lost and Unaccounted for	176,397p	174,593r	1,804	1.0
Total Disposition of Energy†	2,285,949p	2,338,629r	(52,680)	(2.3)
Kwhr Used per Customer (Average for Year)				
Residential	8,696p	8,825r	(129)	(1.5)
Commercial	51,983p	53,402r	(1,419)	(2.7)
Total Ultimate Customer	22,116p	23,026r	(910)	(4.0)
CUSTOMERS AT YEAR END—SECTION VII (Thousands)				
Residential	84,402p	83,304r	1,098	1.3
Commercial	9,968p	9,847r	121	1.2
Industrial	542p	517r	25	4.8
Street and Highway Lighting	149p	141r	8	5.7
Other	225p	202r	23	11.4
Total Ultimate Customers	95,286p	94,011r	1,275	1.4
REVENUES—SECTION VIII (Millions of Dollars)				
Residential	$ 47,031p	$ 42,404r	$ 4,627	10.9
Commercial	33,913p	31,325r	2,588	8.3
Industrial	35,898p	33,030r	2,868	8.7
Street and Highway Lighting	1,250p	1,169r	81	6.9
Other	3,035p	2,667r	368	13.8
Total Revenues from Ultimate Customers	$ 121,127p	$ 110,595r	$10,532	9.5
Exports to Canada and Mexico	13p	27r	(14)	(51.6)
Total Revenues from Sales of Energy	$ 121,140p	$ 110,622r	$10,518	9.5
Average Annual Revenue per Customer:				
Residential	$ 560.85p	$ 512.30r	$ 48.55	9.5
Commercial	$3,429.24p	$3,206.52r	$222.72	6.9
Total Ultimate Customer	$1,279.57p	$1,184.08r	$95.49	8.1
Average Revenue per Kwhr:				
Residential	6.45¢p	5.80¢r	0.65¢	11.2
Commercial	6.60¢p	6.00¢r	0.60¢	10.0
Total Ultimate Customer	5.79¢p	5.14¢r	0.65¢	12.6
ECONOMICS & OTHER—SECTION X				
Miles of Overhead Electric Line, 22 Kv and Above	585,149	573,015	12,134	2.1
Employees of Investor-Owned Electric Utilities	505,100	490,500	14,600	3.0
Plant Ratio-Kwhr Generated/Kw of Capacity‡	3,489	3,676	(187)	(5.1)

Note: Total may not equal sum of components due to independent rounding.
*Represents reclassification in ownership between industrial and electric utility plants and rerating of turbines within the Electric Utility Industry.
†Excludes industrial for own use. ‡On basis of installed name plate capacity.
p Preliminary. r Revised. ( ) Denotes negative figure.

SUMMARY

FINANCIAL—SECTION IX (Millions of Dollars)	Investor-Owned Electric Utilities			
			Change	
	1982	1981	Amount	Percent
COMBINED BALANCE SHEETS:				
ASSETS				
Utility Plant:				
Electric	$319,723	$290,723	$29,000	10.0
Accumulated Provision for Depreciation and Amortization	64,552	58,783	5,769	9.8
Net Electric Utility Plant	255,171	231,940	23,231	10.0
Nuclear Fuel	8,056	7,449	607	8.1
Accumulated Provision for Amortization of Nuclear Fuel Assemblies	3,591	3,324	267	8.0
Net Nuclear Fuel	4,465	4,125	340	8.2
Net Total Electric Utility Plant	259,636	236,065	23,571	10.0
Other	17,084	16,241	843	5.2
Accumulated Provision for Depreciation and Amortization	5,462	4,959	503	10.1
Net Other Utility Plant	11,622	11,282	340	3.0
Total Utility Plant	344,862	314,413	30,449	9.7
Accumulated Provision for Depreciation and Amortization	73,605	67,066	6,539	9.8
Net Total Utility Plant Including Nuclear Fuel	271,258	247,347	23,911	9.7
Other Property and Investment	6,656	5,737	919	16.0
Total Current and Accrued Assets	31,799	28,100	3,699	13.2
Total Deferred Debits	7,486	6,532	954	14.6
Total Assets	$317,198	$287,716	$29,482	10.2
LIABILITIES				
Capitalization:				
Common Capital Stock	$ 40,491	$ 35,406	$ 5,085	14.4
Other Paid-In Capital Excluding Retained Earnings	27,305	23,838r	3,467	14.5
Retained Earnings	30,984	27,511	3,473	12.6
Total Common Capital Stock Equity	98,779	86,755	12,024	13.9
Preferred Stock	28,616	26,817	1,799	6.7
Total Long-Term Debt	123,692	114,563	9,129	8.0
Total Capitalization	251,088	228,136	22,952	10.1
Total Current and Accrued Liabilities	33,356	32,395	961	3.0
Total Deferred Credits and Operating Reserves	14,317	11,140	3,177	28.5
Contributions in Aid of Construction	127	115	12	10.4
Deferred Income Taxes	18,310	15,931	2,379	14.9
Total Liabilities	$317,198	$287,716	$29,482	10.2
COMBINED INCOME STATEMENTS:				
Operating Revenues—Electric Department	$101,693	$ 94,270	$7,423	7.9
Operating Expenses Including Maintenance	61,242	58,842	2,400	4.1
Depreciation, Depletion and Amortization	7,588	6,893	695	10.1
Taxes	14,604	12,189	2,415	19.8
Total Operating Expenses	83,435	77,922	5,513	7.1
Operating Income	18,258	16,347	1,911	11.7
Other Income (Non-Operating) Net	5,720	4,672	1,048	22.4
Other Departments	1,113	1,031	82	8.0
Income before Interest Charges (Gross Income)	25,091	22,050	3,041	13.8
Total Interest Charges	10,066	9,421	645	6.8
Income before Extraordinary Items	15,025	12,628	2,397	19.0
Extraordinary Items	121	28	93	NA
Net Income	15,146	12,656	2,490	19.7
Preferred Dividend Charges	2,502	2,251	251	11.2
Available for Common Stock	12,643	10,405	2,238	21.5
Common Dividends	8,968	7,587	1,381	18.2
Net Income After Dividends	$ 3,676	$ 2,818	$ 858	30.4
Electric Utility Financing:				
Long-Term Debt	$9,224	$ 8,929	$ 295	3.3
Preferred Stock	2,137	1,174	963	82.0
Common Stock	5,025	4,089	936	22.9
Total Capital	$ 16,386	$ 14,192	$2,194	15.5
Construction Expenditures				
Production	$ 25,339	$ 20,912	$ 4,427	21.2
Transmission	2,203	2,270	(67)	(3.0)
Distribution	4,827	4,606	221	4.8
Other	2,981	2,902	79	2.7
Total	$ 35,350	$ 30,690	$ 4,660	15.2

Note: Total may not equal sum of components due to independent rounding.
( ) Denotes negative figure. NA Not Applicable.
r Revised.

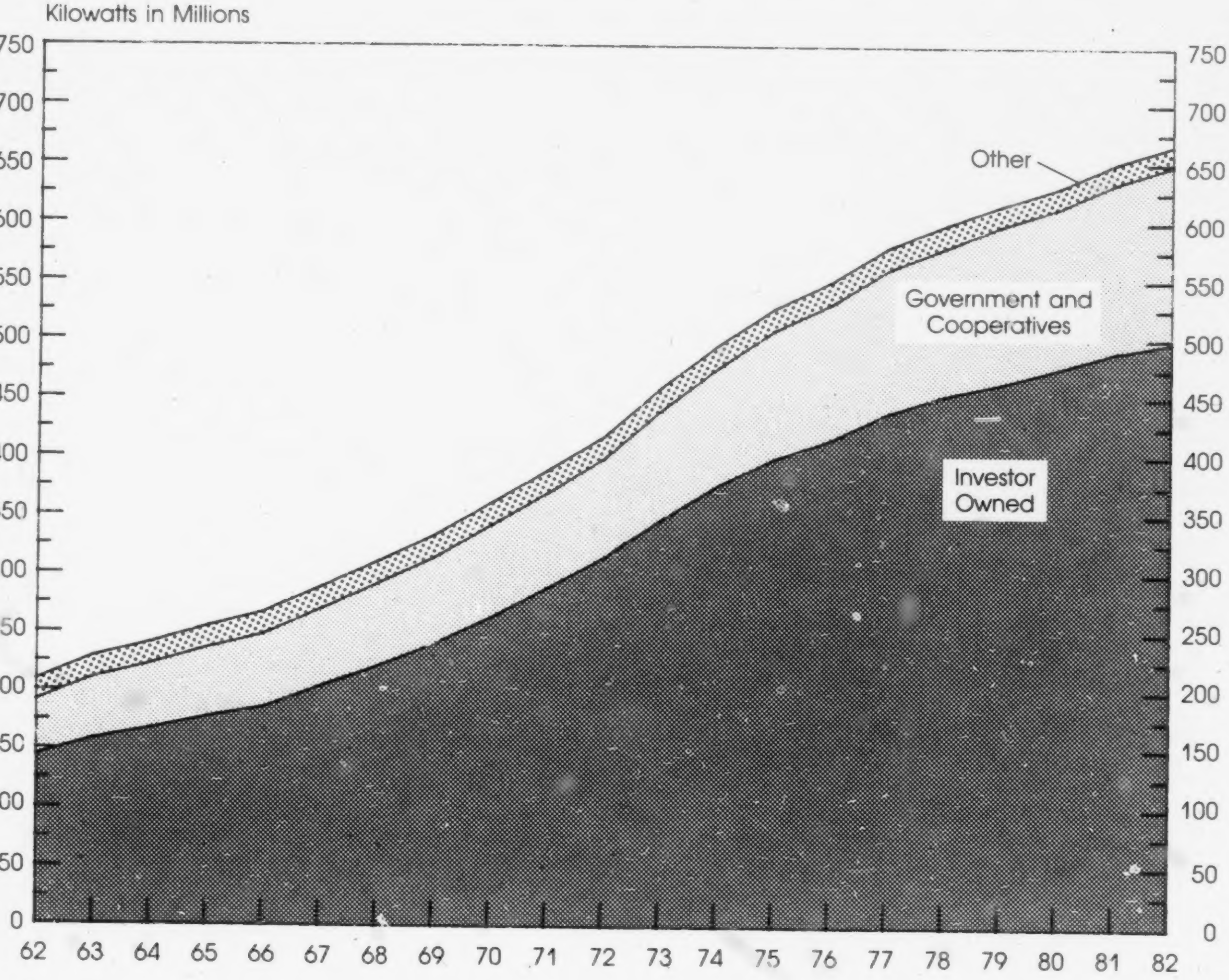
GENERATING CAPACITY

SECTION I

Chart I-A

INSTALLED GENERATING CAPACITY

TOTAL UNITED STATES



Based on Table 1, page 7.
Source: Energy Information Administration, Form 759.

TABLE 1
INSTALLED GENERATING CAPACITY IN THE UNITED STATES*
KILOWATTS IN THOUSANDS (NAME PLATE)

December 31st	Investor-Owned Utilities	Government and Cooperatives	Total Electric Utility Industry	Other Sources**	Total United States
1982	**499,111**	**150,994**	**650,105**	**16,938e**	**667,043**
1981r	490,767	144,041	634,808	17,142e	651,950
1980	477,083	136,612	613,695	17,323e	631,018
1979	464,144	134,299	598,443	17,436	615,879
1978	453,647	125,665	579,312	19,391	598,703
1977	438,385	121,976	560,361	19,245	579,606
1976	415,504	115,658	531,162	19,113	550,275
1975	399,036	109,378	508,414	19,177	527,591
1974	376,122	100,046	476,168	19,351	495,519
1973	346,476	93,399	439,875	19,377	459,252
1972	314,353	84,400	398,753	18,768	417,521
1971	288,301	80,779	369,080	19,297	388,377
1970	262,675	78,415	341,090	19,237	360,327
1969	240,078	73,271	313,349	19,257	332,606
1968	220,766	70,292	291,058	19,123	310,181
1967	203,580	65,672	269,252	18,933	288,185
1966	185,671	62,172	247,843	18,973	266,816
1965	177,570	58,557	236,127	18,393	254,520
1964	167,704	54,581	222,285	18,186	240,471
1963	158,448	52,101	210,549	18,208	228,757
1962	144,577	46,490	191,067	17,674	208,741

Note: Total may not equal sum of components due to independent rounding.

*Alaska and Hawaii included since 1963.

**Includes capacity of industrial, mine and railway electric power plants. Does not include the capacity of isolated plants in institutions, hotels, apartment houses, office buildings, amusement parks, etc., for which information is not available.

r Revised. e Estimated by EEI.

Source: Energy Information Administration, Form 759.

TABLE 2
INSTALLED GENERATING CAPACITY—TOTAL ELECTRIC UTILITY INDUSTRY*
BY OWNERSHIP AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
KILOWATTS IN THOUSANDS (NAME PLATE)

At December 31	Total Electric Utility Industry	Investor-Owned Utilities	Cooperatives	Subtotal Government	Municipal Utilities	Federal	Power Districts, State Projects
TOTAL (Capacity of Generators Driven by All Types of Prime Mover)							
1982	**650,105**	**499,111**	**21,463**	**129,530**	**35,819**	**62,544**	**31,168**
1981r	634,808	490,767	18,406	125,635	35,125	60,982	29,527
1980	613,695	477,083	15,422	121,190	34,598	59,083	27,509
1979	598,443	464,144	13,837	120,462	34,525	58,346	27,591
1978	579,312	453,647	11,635	114,030	34,426	54,282	25,322
1977	560,361	438,385	10,889	111,087	33,291	53,183	24,613
1976	531,162	415,504	9,947	105,711	30,602	51,707	23,402
1975	508,414	399,036	9,136	100,242	28,787	50,133	21,322
1974	476,168	376,122	7,474	92,572	27,324	45,518	19,730
1973	439,875	346,476	7,288	86,111	24,956	44,520	16,635
1972	398,753	314,353	6,704	77,696	23,049	40,408	14,239
1971	369,080	288,301	5,470	75,309	21,992	39,656	13,661
1970	341,090	262,675	5,162	73,253	20,941	38,718	13,594
1969	313,349	240,078	4,318	68,953	20,035	36,130	12,788
1968	291,058	220,766	3,434	66,858	19,429	34,956	12,473
1967	269,252	203,580	3,019	62,653	18,049	33,640	10,964
1966	247,843	185,671	2,758	59,414	16,548	32,608	10,258
1965	236,127	177,570	2,309	56,248	15,407	31,690	9,151
1964	222,285	167,704	2,017	52,564	15,199	28,343	9,022
1963	210,549	158,448	1,873	50,228	14,222	27,315	8,691
1962	191,067	144,577	1,537	44,953	12,929	24,315	7,709
HYDRO (Capacity of Generators Driven by Water Wheels and Turbines)							
1982	**78,128**	**24,584**	**81**	**53,464**	**4,729**	**36,378**	**12,357**
1981r	77,145	24,319	67	52,759	4,686	35,891	12,182
1980	76,378	24,227	67	52,084	4,692	35,212	12,180
1979	75,351	23,916	67	51,368	4,693	34,495	12,180
1978	71,014	23,847	67	47,100	4,694	30,431	11,975
1977	68,762	23,158	67	45,537	4,431	29,332	11,774
1976	67,757	23,134	67	44,556	4,010	29,031	11,515
1975	65,949	23,115	67	42,767	3,760	27,480	11,527
1974	63,560	22,737	54	40,769	3,814	25,447	11,508
1973	61,782	21,770	56	39,956	3,334	25,582	11,040
1972	56,386	19,122	54	37,210	3,330	24,336	9,544
1971	55,912	19,076	54	36,782	3,260	24,056	9,466
1970	55,056	18,850	56	36,150	3,195	23,499	9,456
1969	52,753	18,444	56	34,253	3,195	22,054	9,004
1968	51,168	18,337	57	32,774	3,177	20,905	8,692
1967	48,112	18,134	57	29,921	2,623	19,589	7,709
1966	44,977	16,381	57	28,539	2,005	19,531	7,003
1965	43,782	16,096	58	27,628	2,005	18,717	6,906
1964	42,188	15,296	58	26,834	1,979	17,947	6,908
1963	40,214	14,620	58	25,536	1,982	16,923	6,631
1962	37,342	13,629	47	23,666	1,651	16,149	5,866
CONVENTIONAL STEAM (Capacity of Generators Driven by Steam Engines and Turbines)							
1982	**503,804**	**420,863**	**21,011**	**61,930**	**27,026**	**20,246**	**14,658**
1981r	491,287	413,571	17,939	59,778	26,199	20,392	13,187
1980	475,276	403,031	14,954	57,291	25,697	20,393	11,201
1979	462,999	392,349	13,375	57,275	25,599	20,378	11,298
1978	449,231	383,024	11,073	55,134	25,511	20,378	9,245
1977	436,426	371,976	10,429	54,021	24,590	20,378	9,053
1976	415,181	355,263	9,061	50,857	22,396	20,355	8,106
1975	397,649	340,907	8,264	48,478	20,843	20,332	7,303
1974	375,940	323,490	7,017	45,433	20,395	18,899	6,139
1973	352,072	303,536	6,836	41,700	18,511	18,917	4,272
1972	322,201	279,129	6,254	36,818	16,895	16,052	3,871
1971	299,996	260,016	5,018	34,962	16,026	15,576	3,360
1970	275,191	236,792	4,761	33,638	15,141	15,194	3,303
1969	252,411	217,196	3,925	31,290	14,291	14,051	2,948
1968	233,095	199,285	3,031	30,779	13,807	14,026	2,946
1967	214,435	182,340	2,608	29,487	13,046	14,026	2,415
1966	197,415	167,370	2,348	27,697	12,230	13,052	2,415
1965	188,054	159,800	1,902	26,352	11,197	12,948	2,207
1964	175,871	150,753	1,617	23,501	11,056	10,371	2,074
1963	166,229	142,235	1,477	22,517	10,120	10,367	2,030
1962	149,943	129,556	1,169	19,218	9,265	8,141	1,812

See page 9 for footnotes.

TABLE 2 (continued)
INSTALLED GENERATING CAPACITY—TOTAL ELECTRIC UTILITY INDUSTRY*
BY OWNERSHIP AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
KILOWATTS IN THOUSANDS (NAME PLATE)

At December 31	Total Electric Utility Industry	Investor-Owned Utilities	Cooperatives	Subtotal Government	Municipal Utilities	Federal	Power Districts, State Projects
NUCLEAR STEAM (Capacity of Generators Driven by Nuclear Reactors)							
1982	**63,042**	**52,038**	**50**	**10,954**	**963**	**5,897**	**4,094**
1981r	60,776	50,992	50	9,734	963	4,677	4,094
1980	56,488	47,960	50	8,478	963	3,456	4,059
1979	54,593	46,065	50	8,478	963	3,456	4,059
1978	53,527	44,984	65	8,478	963	3,456	4,059
1977	49,880	41,654	55	8,171	963	3,456	3,752
1976	42,918	35,419	480	7,019	963	2,304	3,752
1975	39,754	33,539	480	5,735	963	2,304	2,468
1974	31,662	28,397	55	3,210	—	1,152	2,058
1973	21,118	19,766	53	1,299	—	—	1,299
1972	15,302	14,449	53	800	—	—	800
1971	8,688	7,833	55	800	—	—	800
1970	6,493	5,693	—	800	—	—	800
1969	3,980	3,180	—	800	—	—	800
1968	2,817	2,017	—	800	—	—	800
1967	2,887	2,087	**	800**	**	—	800
1966	1,942	1,142**	**	800**	**	—	800
1965	926	926**	**	**	**	—	**
1964	906	906**	**	**	**	—	**
1963	861	861**	**	**	—	—	**
1962	734	734	—	—	—	—	—
INTERNAL COMBUSTION (Capacity of Generators Driven by Internal Combustion Engines)							
1982	**5,131**	**1,627**	**321**	**3,182**	**3,101**	**22**	**60**
1981r	5,600	1,885	351	3,364	3,278	22	65
1980	5,553	1,865	351	3,337	3,246	22	69
1979	5,500	1,814	345	3,341	3,270	17	54
1978	5,540	1,792	430	3,318	3,258	17	43
1977	5,293	1,597	338	3,358	3,307	17	34
1976	5,306	1,688	339	3,279	3,233	17	29
1975	5,062	1,475	325	3,262	3,221	17	24
1974	5,006	1,498	348	3,160	3,115	20	25
1973	4,903	1,404	343	3,156	3,111	21	24
1972	4,864	1,653	343	2,868	2,824	20	24
1971	4,484	1,376	343	2,765	2,706	24	35
1970	4,350	1,340	345	2,665	2,605	25	35
1969	4,205	1,258	337	2,610	2,549	25	36
1968	3,978	1,127	346	2,505	2,445	25	35
1967	3,818	1,019	354	2,445	2,380	25	40
1966	3,509	778	353	2,378	2,313	25	40
1965	3,365	748	349	2,268	2,205	25	38
1964	3,320	749	342	2,229	2,164	25	40
1963	3,245	732	338	2,175	2,120	25	30
1962	3,048	658	321	2,069	2,013	25	31

Note: Total may not equal sum of components due to independent rounding.

*Alaska and Hawaii included since 1963.

**Generator capacity of the following plants is included in Conventional Steam:
Piqua—Piqua Municipal Power Plant, Ohio
Elk River—Rural Cooperative Power Assoc., Minnesota
Sheldon—Consumer's Public Power District, Nebraska
Parr—South Carolina Electric & Gas Co., South Carolina

Source: Energy Information Administration, Form 759.

r Revised.

TABLE 3
INSTALLED GENERATING CAPACITY—TOTAL ELECTRIC UTILITY INDUSTRY
BY STATE AND TYPE OF PRIME MOVER DRIVING THE GENERATOR AT DECEMBER 31st, 1981r and 1982—KILOWATTS IN THOUSANDS (NAME PLATE)

Division/State	Total Electric Utility Industry		Hydro		Conventional Steam		Nuclear Steam		Internal Combustion	
	1982	1981r	1982	1981r	1982	1981r	1982	1981r	1982	1981r
Total United States	**650,105**	**634,808**	**78,128**	**77,145**	**503,804**	**491,287**	**63,042**	**60,776**	**5,131**	**5,600**
Maine	2,385	2,369	362	344	1,104	1,104	864	864	54	56
New Hampshire	1,552	1,567	384	379	1,168	1,188	—	—	—	—
Vermont	943	942	196	194	164	164	563	563	20	20
Massachusetts	10,153	9,656	1,639	1,639	7,480	6,983	863	863	171	171
Rhode Island	284	284	2	2	256	256	—	—	26	26
Connecticut	6,113	6,149	133	134	3,789	3,823	2,172	2,172	20	20
New England	**21,430**	**20,965**	**2,716**	**2,691**	**13,961**	**13,518**	**4,462**	**4,462**	**291**	**294**
New York	31,804	31,103	4,970	4,965	22,655	21,960	4,068	4,068	111	110
New Jersey	13,783	13,741	389	389	10,501	10,459	2,890	2,890	2	2
Pennsylvania	33,674	34,375	1,649	1,651	26,894	27,475	5,059	5,159	72	90
Middle Atlantic	**79,260**	**79,218**	**7,008**	**7,005**	**60,050**	**59,894**	**12,017**	**12,117**	**186**	**202**
Ohio	27,809	27,352	26	2	26,705	26,216	962	962	117	173
Indiana	18,802	16,944	93	93	18,656	16,798	—	—	53	53
Illinois	30,993	29,922	27	27	23,823	23,902	6,865	5,718	278	275
Michigan	22,541	22,647	2,322	2,322	16,655	16,740	3,172	3,172	392	413
Wisconsin	11,051	11,040	399	399	8,926	8,911	1,633	1,633	94	98
East North Central	**111,196**	**107,905**	**2,867**	**2,842**	**94,764**	**92,567**	**12,631**	**11,485**	**933**	**1,011**
Minnesota	8,712	8,805	142	142	6,487	6,553	1,755	1,755	328	354
Iowa	7,955	8,154	130	130	6,809	6,849	597	597	419	577
Missouri	15,802	14,995	925	844	14,513	13,776	—	—	363	375
North Dakota	3,756	3,876	430	430	3,242	3,362	—	—	84	84
South Dakota	2,316	2,198	1,383	1,383	862	709	—	—	72	106
Nebraska	5,983	5,248	234	234	4,155	3,425	1,338	1,338	256	251
Kansas	8,528	8,569	2	2	7,992	8,022	—	—	534	546
West North Central	**53,053**	**51,845**	**3,247**	**3,166**	**44,060**	**42,696**	**3,690**	**3,690**	**2,057**	**2,293**
Delaware	2,032	1,643	—	—	2,022	1,633	—	—	11	11
Maryland	9,809	9,841	494	494	7,424	7,456	1,828	1,828	63	63
District of Columbia	868	1,103	—	—	868	1,103	—	—	—	—
Virginia	11,637	11,770	945	945	7,004	7,137	3,655	3,655	34	34
West Virginia	15,249	15,249	101	101	15,149	15,149	—	—	—	—
North Carolina	17,577	17,565	1,847	1,847	12,774	12,761	2,953	2,953	2	4
South Carolina	12,286	12,301	2,264	2,264	6,591	6,606	3,430	3,430	1	1
Georgia	17,437	16,340	1,951	1,734	13,781	12,901	1,700	1,700	5	5
Florida	31,027	30,019	30	30	27,477	26,467	3,260	3,260	259	261
South Atlantic	**117,922**	**115,831**	**7,630**	**7,413**	**93,091**	**91,213**	**16,826**	**16,826**	**375**	**379**
Kentucky	16,031	15,487	747	747	15,270	14,727	—	—	14	14
Tennessee	18,270	17,099	3,774	3,754	12,054	12,124	2,441	1,221	—	—
Alabama	19,068	19,135	2,600	2,588	11,235	11,314	5,233	5,233	—	—
Mississippi	6,122	6,080	—	—	6,122	6,080	—	—	—	—
East South Central	**59,490**	**57,801**	**7,121**	**7,089**	**44,682**	**44,245**	**7,674**	**6,453**	**14**	**14**
Arkansas	7,949	7,987	1,086	1,086	4,979	5,005	1,845	1,845	38	51
Louisiana	15,155	13,976	—	—	14,966	13,785	—	—	188	192
Oklahoma	12,457	12,112	965	965	11,362	11,006	—	—	130	141
Texas	57,557	54,935	515	515	56,828	54,173	—	—	214	247
West South Central	**93,117**	**89,011**	**2,567**	**2,567**	**88,135**	**83,969**	**1,845**	**1,845**	**570**	**630**
Montana	3,183	3,183	2,066	2,066	1,115	1,115	—	—	3	3
Idaho	2,002	1,978	1,944	1,918	50	50	—	—	8	9
Wyoming	5,838	5,258	232	220	5,591	5,023	—	—	15	15
Colorado	6,785	6,242	878	869	5,492	4,956	342	343	74	74
New Mexico	5,494	4,988	24	24	5,352	4,846	—	—	117	117
Arizona	10,862	10,916	2,113	2,111	8,746	8,801	—	—	4	4
Utah	2,579	2,580	197	199	2,347	2,347	—	—	34	34
Nevada	4,262	4,127	682	682	3,517	3,380	—	—	64	66
Mountain	**41,006**	**39,272**	**8,136**	**8,089**	**32,209**	**30,518**	**342**	**343**	**319**	**322**
Washington	21,530	23,346	18,677	20,486	1,989	1,996	860	860	4	4
Oregon	10,847	8,707	8,051	5,886	1,574	1,599	1,216	1,216	6	6
California	38,455	38,176	9,949	9,781	26,985	26,815	1,478	1,478	44	101
Pacific	**70,831**	**70,228**	**36,677**	**36,153**	**30,547**	**30,409**	**3,554**	**3,554**	**53**	**111**
Alaska	1,238	1,172	158	127	861	813	—	—	219	232
Hawaii	1,560	1,560	3	3	1,444	1,444	—	—	113	112
Alaska & Hawaii	**2,799**	**2,732**	**161**	**131**	**2,305**	**2,257**	**—**	**—**	**332**	**344**

Note: Total may not equal sum of components due to independent rounding.

r Revised.

Source: Energy Information Administration, Form 759.

TABLE 4
INSTALLED GENERATING CAPACITY—INVESTOR-OWNED ELECTRIC UTILITIES
BY STATE AND TYPE OF PRIME MOVER DRIVING THE GENERATOR AT DECEMBER 31st, 1981r and 1982—KILOWATTS IN THOUSANDS (NAME PLATE)

Division/State	Total Investor-Owned Utilities		Hydro		Conventional Steam		Nuclear Steam		Internal Combustion	
	1982	1981r	1982	1981r	1982	1981r	1982	1981r	1982	1981r
Total United States	**499,111**	**490,767**	**24,584**	**24,319**	**420,863**	**413,571**	**52,038**	**50,992**	**1,627**	**1,885**
Maine	2,370	2,354	361	343	1,104	1,104	864	864	41	43
New Hampshire	1,552	1,567	384	379	1,168	1,188	—	—	—	—
Vermont	872	870	183	181	108	108	563	563	17	17
Massachusetts	9,193	9,235	1,628	1,628	6,597	6,639	863	863	105	105
Rhode Island	282	282	—	—	256	256	—	—	26	26
Connecticut	6,044	6,079	130	131	3,737	3,771	2,172	2,172	6	6
New England	**20,313**	**20,387**	**2,686**	**2,662**	**12,971**	**13,067**	**4,462**	**4,462**	**194**	**196**
New York	24,752	24,055	857	857	21,683	20,989	2,172	2,172	40	38
New Jersey	13,668	13,626	387	387	10,391	10,349	2,890	2,890	—	—
Pennsylvania	33,667	34,367	1,649	1,651	26,887	27,468	5,059	5,159	72	89
Middle Atlantic	**72,086**	**72,049**	**2,893**	**2,894**	**58,961**	**58,806**	**10,121**	**10,221**	**111**	**127**
Ohio	27,033	26,576	24	—	25,978	25,489	962	962	70	126
Indiana	17,354	16,446	93	93	17,228	[illegible]	—	—	32	32
Illinois	29,747	28,671	14	14	[illegible]	22,901	6,865	5,718	39	39
Michigan	21,052	21,144	2,288	2,288	[illegible]	15,500	3,172	3,172	188	183
Wisconsin	9,737	9,725	364	364	[illegible]	7,750	1,583	1,583	24	28
East North Central	**104,923**	**102,561**	**2,783**	**2,759**	**89,205**	**87,961**	**12,581**	**11,435**	**353**	**408**
Minnesota	7,709	7,725	139	139	5,777	5,793	1,755	1,755	39	39
Iowa	6,822	7,064	127	127	6,040	6,126	597	597	59	214
Missouri	11,519	11,461	596	596	10,843	10,784	—	—	80	80
North Dakota	633	633	—	—	574	574	—	—	60	60
South Dakota	804	801	—	—	742	709	—	—	62	91
Nebraska	—	—	—	—	—	—	—	—	—	—
Kansas	6,442	6,457	2	2	6,415	6,428	—	—	25	26
West North Central	**33,928**	**34,140**	**863**	**863**	**30,389**	**30,414**	**2,352**	**2,352**	**324**	**511**
Delaware	1,851	1,462	—	—	1,850	1,461	—	—	1	1
Maryland	9,734	9,765	494	494	7,400	7,432	1,828	1,828	11	11
District of Columbia	868	1,103	—	—	868	1,103	—	—	—	—
Virginia	11,356	11,488	709	709	6,976	7,108	3,655	3,655	15	15
West Virginia	15,249	15,249	101	101	15,149	15,149	—	—	—	—
North Carolina	17,192	17,180	1,477	1,477	12,762	12,749	2,953	2,953	—	—
South Carolina	9,777	9,777	1,845	1,845	4,501	4,501	3,430	3,430	—	—
Georgia	16,242	15,145	774	556	13,764	12,884	1,700	1,700	5	5
Florida	25,442	24,769	—	—	22,150	21,477	3,260	3,260	31	31
South Atlantic	**107,710**	**105,937**	**5,400**	**5,183**	**85,420**	**83,864**	**16,826**	**16,826**	**64**	**64**
Kentucky	7,798	7,255	111	111	7,688	7,144	—	—	—	—
Tennessee	172	172	172	172	—	—	—	—	—	—
Alabama	9,974	9,974	1,342	1,342	6,856	6,856	1,777	1,777	—	—
Mississippi	5,348	5,348	—	—	5,348	5,348	—	—	—	—
East South Central	**23,292**	**22,749**	**1,624**	**1,624**	**19,891**	**19,348**	**1,777**	**1,777**	—	—
Arkansas	6,591	6,591	65	65	4,666	4,666	1,845	1,845	14	14
Louisiana	12,719	11,527	—	—	12,615	11,455	—	—	104	72
Oklahoma	9,724	9,751	—	—	9,691	9,715	—	—	33	36
Texas	47,128	45,547	10	10	47,079	45,489	—	—	39	49
West South Central	**76,161**	**73,416**	**75**	**75**	**74,051**	**71,325**	**1,845**	**1,845**	**190**	**171**
Montana	1,993	1,993	875	875	1,115	1,115	—	—	3	3
Idaho	1,355	1,357	1,300	1,300	50	50	—	—	6	7
Wyoming	3,894	3,896	—	—	3,880	3,882	—	—	14	14
Colorado	3,869	3,334	340	340	3,167	2,631	342	343	20	20
New Mexico	5,278	4,771	—	—	5,191	4,685	—	—	86	86
Arizona	3,567	3,601	7	7	3,556	3,590	—	—	4	4
Utah	2,401	2,401	62	62	2,333	2,333	—	—	5	5
Nevada	3,590	3,454	9	9	3,517	3,380	—	—	64	66
Mountain	**25,946**	**24,307**	**2,594**	**2,594**	**22,809**	**21,666**	**342**	**343**	**201**	**204**
Washington	2,927	2,933	965	965	1,959	1,966	—	—	3	3
Oregon	4,187	4,187	1,443	1,443	1,522	1,522	1,216	1,216	6	6
California	26,028	25,977	3,242	3,242	22,239	22,189	515	515	30	30
Pacific	**33,141**	**33,097**	**5,651**	**5,651**	**25,721**	**25,677**	**1,731**	**1,731**	**39**	**39**
Alaska	49	65	12	12	—	—	—	—	37	53
Hawaii	1,560	1,560	3	3	1,444	1,444	—	—	113	112
Alaska & Hawaii	**1,610**	**1,625**	**15**	**15**	**1,444**	**1,444**	—	—	**150**	**165**

Note: Total may not equal sum of components due to independent rounding.
r Revised.
Source: Energy Information Administration, Form 759.

TABLE 5
CHANGES IN INSTALLED GENERATING CAPACITY
TOTAL ELECTRIC UTILITY INDUSTRY*
BY TYPE OF PRIME MOVER DRIVING THE GENERATOR
1963–1982—KILOWATTS IN THOUSANDS (NAME PLATE)

At December 31	New Additions	Retirements	Adjustments** Plus	Adjustments** Minus	Net Additions
1982‡					
Hydro	....	....	....	....	983
Steam	....	....	....	....	14,783
Internal Combustion	....	....	....	....	(469)
Total	....	....	....	....	15,297
1981‡r					
Hydro	....	....	....	....	767
Steam	....	....	....	....	20,299
Internal Combustion	....	....	....	....	47
Total	....	....	....	....	21,113
1980‡					
Hydro	....	....	....	....	1,027
Steam	....	....	....	....	14,172
Internal Combustion	....	....	....	....	53
Total	....	....	....	....	15,252
1979‡					
Hydro	....	....	....	....	4,337
Steam	....	....	....	....	14,834
Internal Combustion	....	....	....	....	(40)
Total	....	....	....	....	19,131
1978‡					
Hydro	....	....	....	....	2,252
Steam	....	....	....	....	16,452
Internal Combustion	....	....	....	....	247
Total	....	....	....	....	18,951
1977‡					
Hydro	....	....	....	....	1,005
Steam	....	....	....	....	28,207
Internal Combustion	....	....	....	....	(13)
Total	....	....	....	....	29,199
1976‡					
Hydro	....	....	....	....	1,808
Steam	....	....	....	....	20,696
Internal Combustion	....	....	....	....	244
Total	....	....	....	....	22,748
1975‡					
Hydro	....	....	....	....	2,389
Steam	....	....	....	....	29,801
Internal Combustion	....	....	....	....	56
Total	....	....	....	....	32,246
1974‡					
Hydro	....	....	....	....	1,778
Steam	....	....	....	....	34,412
Internal Combustion	....	....	....	....	103
Total	....	....	....	....	36,293
1973‡					
Hydro	....	....	....	....	5,396
Steam	....	....	....	....	35,687
Internal Combustion	....	....	....	....	39
Total	....	....	....	....	41,122
1972‡					
Hydro	....	....	....	....	474
Steam	....	....	....	....	28,819
Internal Combustion	....	....	....	....	380
Total	....	....	....	....	29,673
1971‡					
Hydro	....	....	....	....	856
Steam	....	....	....	....	27,000
Internal Combustion	....	....	....	....	134
Total	....	....	....	....	27,990
1970					
Hydro	2,244	48	109	3	2,302
Steam	25,506	905	882	190	25,293
Internal Combustion	242	40	42	98	146
Total	27,992	993	1,033	291	27,741
1969					
Hydro	1,638	115	64	2	1,585
Steam	19,837	856	1,605	107	20,479
Internal Combustion	219	39	78	31	227
Total	21,694	1,010	1,747	140	22,291
1968					
Hydro	3,015	80	145	24	3,056
Steam	18,830	697	593	136	18,590
Internal Combustion	210	57	39	32	160
Total	22,055	834	777	192	21,806
1967					
Hydro	3,320	215	30	—	3,135
Steam	17,992	459	578	146	17,965
Internal Combustion	364	56	24	23	309
Total	21,676	730	632	169	21,409
1966					
Hydro	1,240	51	8	2	1,195
Steam	10,486	565	604	148	10,377
Internal Combustion	183	54	24	9	144
Total	11,909	670	636	159	11,716
1965					
Hydro	1,661	64	2	5	1,594
Steam	11,943	773	1,202	169	12,203
Internal Combustion	102	70	19	6	45
Total	13,706	907	1,223	180	13,842
1964					
Hydro	2,021	36	22	33	1,974
Steam	9,366	534	926	71	9,687
Internal Combustion	93	43	31	6	75
Total	11,480	613	979	110	11,736
1963					
Hydro	2,838	62	10	2	2,784
Steam	9,475	771	7,269	193	15,780
Internal Combustion	165	36	17	8	138
Total	12,478	869	7,296	203	18,702

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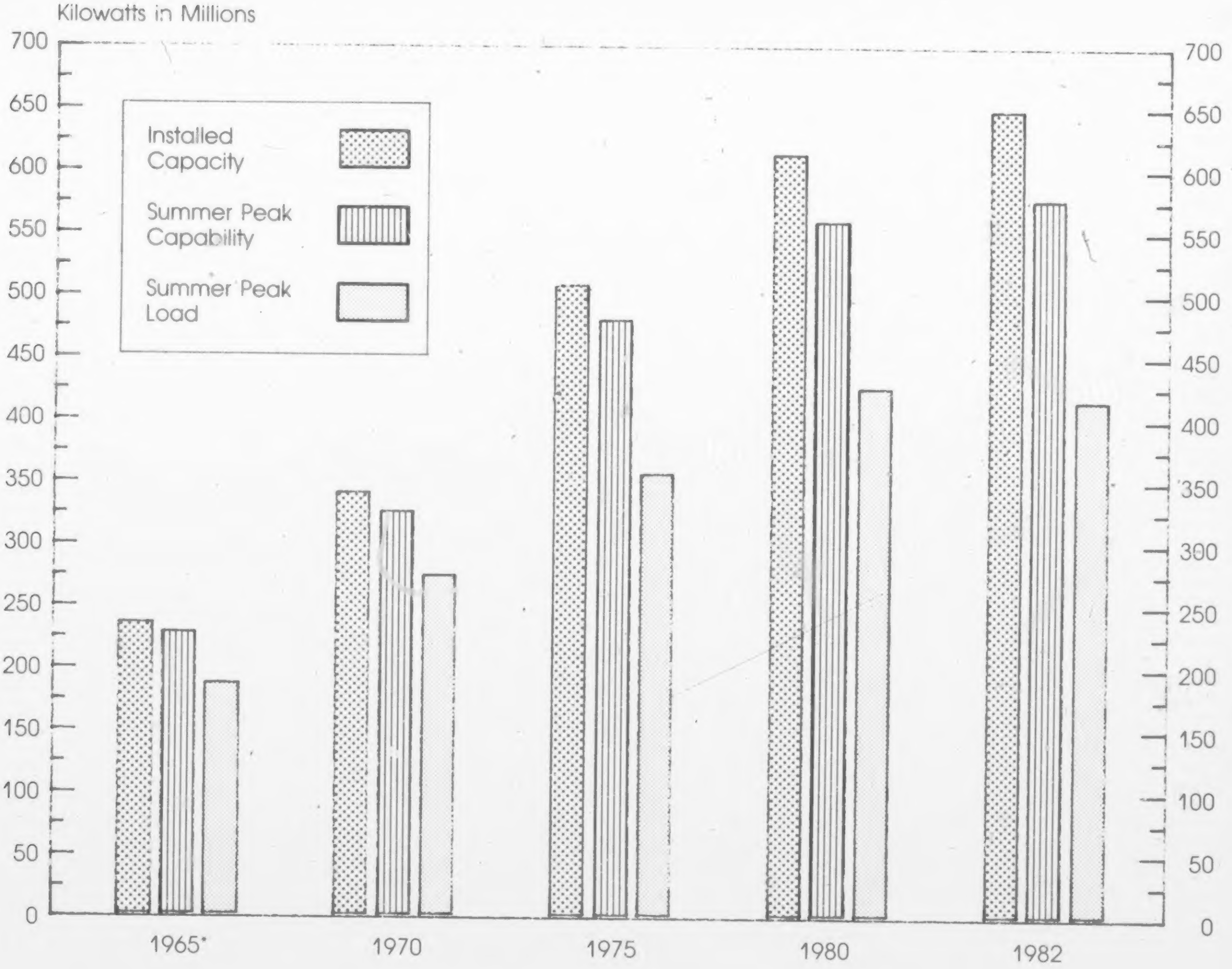
*Alaska and Hawaii included since 1964.

**Adjustments are result of reclassification in ownership between industrial and electric utility plants and rerating of turbines within the Electric Utility Industry. ( ) Denotes negative figure.

‡Complete data not available at time of printing. r Revised. Source: Energy Information Administration, Form 759.

ELECTRIC POWER SUPPLY
SECTION II

Chart II-A
CAPACITY, CAPABILITY & PEAK LOAD
TOTAL ELECTRIC UTILITY INDUSTRY



*Excludes Alaska and Hawaii.
Based on Table 2, page 8 and Table 7, page 14.
Source: Energy Information Administration, Form 759, and Edison Electric Institute, Electric Power Surve

TABLE 7
CAPABILITY*—PEAK LOAD—KILOWATT-HOUR REQUIREMENTS
TOTAL ELECTRIC UTILITY INDUSTRY (EXCLUDING ALASKA AND HAWAII)

Year	Capability at Time of Summer Peak Load (Mw)	Non-Coincident Summer Peak Load (Mw)	Capability at Time of Winter Peak Load (Mw)†	Non-Coincident Winter Peak Load (Mw)†	Margin of Reserve Based on Non-Coincident Peak Load (%)†‡	Annual Kilowatt-Hour Requirements (in Millions)	Annual Load Factor Based on Peak Load (%)
1982p	**577,827**	**414,909**	N/A	**373,318**	**39.3**	**2,258,744**	**62.1**
1981r	572,056	428,295	581,084	391,106	33.6	2,311,006	61.6
1980	558,539	427,058	572,195	384,567	30.8	2,292,718	61.1
1979	545,328	398,424	554,525	368,876	36.9	2,246,927	64.4
1978	545,700	408,050	561,550	383,100	33.7	2,218,700	62.1
1977	516,000	396,350	537,600	360,200	30.2	2,132,300	61.4
1976	498,750	370,900	511,000	349,850	34.5	2,039,500	62.6
1975	479,300	356,800	492,450	331,100	34.3	1,919,500	61.4
1974	444,400	349,250	467,400	302,500	27.2	1,871,700	61.2
1973	415,500	343,900	433,150	295,100	20.8	1,868,800	62.0
1972	381,700	319,150	394,050	290,950	19.6	1,752,200	62.5
1971	353,250	292,100	366,700	261,650	20.9	1,617,100	63.2
1970	326,900	274,650	339,050	248,550	19.0	1,536,400	63.9
1969	300,300	257,650	311,450	236,600	16.6	1,446,000	64.1
1968	278,950	238,000	288,750	226,700	17.2	1,327,200	63.5
1967	257,950	213,450	267,750	205,850	20.8	1,221,500	65.3
1966	240,700	203,350	247,650	193,700	18.4	1,152,900	64.7
1965	228,900	186,300	235,700	180,400	22.9	1,060,100	65.0
1964	216,500	175,000	222,400	171,100	23.7	986,800	64.2
1963	205,300	159,450	210,000	161,300	30.2(w)	921,800	65.2
1962	193,600	149,050	198,050	151,250	31.0(w)	860,200	64.9

*Capability represents the maximum kilowatt output with all power sources available and with hydraulic equipment under actual water conditions. It must, therefore, provide the necessary allowance for maintenance, emergency outages, and system operating requirements. This rating is more indicative of the actual generating ability of existing power stations than the familiar name-plate rating as used in other tables of this publication.

† Beginning in 1973 capability and peak load data shown under Winter represent turn-of-year data for the winter season that follows the summer peak load data for that calendar year. Previously, data in this series was always for the month of December.

‡ Calculated from the maximum non-coincident peak load, summer or winter, and the capability at the time of this peak load.

(w) Indicates that the non-coincident peak load, summer or winter, occurred during winter of that year.

Sources: North American Electric Reliability Council and Edison Electric Institute. All data series shown have a discontinuity between 1978 and 1979 because of the switch to NERC data. For calculation of percent changes between 1978 and 1979, see old series values for 1979 in Table 6 of 1979 edition.

p Preliminary. r Revised. N/A Not available.

TABLE 8
ELECTRICITY MADE AVAILABLE IN THE UNITED STATES
KILOWATT-HOURS IN MILLIONS

	Generation								
Year	Investor-Owned Utilities	Government and Cooperatives	Total Electric Utility Industry	Other Sources*	Total United States	Net Imports of Electric Energy	Total Available in U.S.	Estimated Population† (Thousands) (July 1)	Kwhr Per Person
1982	**1,711,576**	**529,635**	**2,241,211**	**61,076e**	**2,302,287**	**30,744**	**2,333,031**	**231,534**	**10,076**
1981r	1,785,500	509,312	2,294,812	64,446e	2,359.258	33,584	2,392,842	229,348	10,433
1980	1,782,933	503,481	2,286,414	67,945e	2,354,359	20,925	2,375,284	227,158	10,457
1979	1,756,170	491,189	2,247,359	71,375	2,318,734	20,334	2,339,068	224,567	10,416
1978	1,721,163	485,150	2,206,313	78,967	2,285,280	19,328	2,304,608	222.095	10,377
1977	1,684,084	440.082	2,124,166	87,575	2,211,741	17,415	2,229,156	219,760	10,144
1976	1,582,029	455,645	2,037,674	87,084	2,124,758	8,611	2,133,369	217,563	9,806
1975	1,486,844	430,775	1,917,619	85,362	2,002,981	6,185	2,009,166	215,465	9,325
1974	1,442,114	424,322	1,866,436	101,572	1,968,008	12,694	1,980,702	213,342	9,284
1973	1,448,860	407,356	1,856,216	102,529	1,958,745	14,278	1,973,023	211,357	9,335
1972	1,358,929	390,708	1,749,637	104,508	1,854,145	7,744	1,861,889	209,284	8,896
1971	1,248,596	363,993	1,612,589	103,239	1,715,828	3,530	1,719,358	206,827	8,313
1970	1,183,190	348,419	1,531,609	108,162	1,639,771	1,960	1,641,731	203,984	8,048
1969	1,102,162	340,020	1,442,182	110,575	1,552,757	1,072	1,553,829	201,385	7,716
1968	1,019,313	310,130	1,329,443	106,586	1,436,029	(631)	1,435,398	199,399	7,199
1967	928,439	285,926	1,214,365	102,935	1,317,300	(299)	1,317,001	197,457	6,670
1966	880,837	263,513	1,144,350	105,094	1,249,444	1,092	1,250,536	195,576	6,394
1965	809,474	245,778	1,055,252	102,331	1,157,583	(141)	1,157,442	193,526	5,981
1964	756,183	227,807	983,990	99,751	1,083,741	1,955	1,085,696	191,141	5,680
1963	701,253	215,540	916,793	94,624	1,011,417	98	1,011,515	188,483	5,367
1962	653,070	201,703	854,773	91,709	946,482	536	947,018	185,771	5,098

Note: Total may not equal sum of components due to independent rounding.

*Includes generation of industrial, mine and railway electric power plants. Does not include the generation of isolated plants in institutions, hotels, apartment houses, office buildings, amusement parks, etc., for which information is not available.

†U.S. Bureau of Census estimates; excludes Armed Forces overseas.

e Estimated by EEI. r Revised. ( ) Denotes negative figure.

Source: Energy Information Administration, Form 759.

TABLE 9
TOTAL UNITED STATES KILOWATT-HOUR SOURCE AND DISPOSITION
1962–1982—KILOWATT-HOURS IN MILLIONS

	1982p	1981r	1980	1979	1978	1977	1976
SOURCE							
Generation							
Total Electric Utility Industry	2,241,211	2,294,812	2,286,414	2,247,359	2,206,313	2,124,166	2,037,674
Industrials	50,622e	56,045e	60,369e	65,341	72,297	83,543	82,406
Industrials—for Sales to Electric Utility Industry	10.454	8,401	7,576	6,034	6,670	4,032	4,678
Total Generation	**2,302,287**	**2,359,258**	**2,354,359**	**2,318,734**	**2,285,280**	**2,211,741**	**2,124,758**
Imports from Canada & Mexico	34,284	35,416	25,021	22,516	21,514	20,159	10,989
Total Kilowatt-hours	**2,336,571**	**2,394,674**	**2,379,380**	**2,341,250**	**2,306,794**	**2,231,900**	**2,135,747**
DISPOSITION							
Total Sales to Ultimate Customers	2,093,592	2,150,674	2,126,094	2,084,400	2,017 818	1,950,791	1,849,625
Exports to Canada & Mexico	3,540	1.832	4,096	2,182	2,186	2,744	2,378
Energy Used by Producer	2,539	1,462	2,540	3,382	2,372	2,462	2,559
Company Use & Free Service	9,881	10,068	9,053	11,086	7,975	7,037	5,717
Lost and Unaccounted For	176,397	174,593	177,228	174,859	204,146	185,323	193,062
Industrials	50,622e	56,045e	60,369e	65,341	72,297	83,543	82,406
Total Kilowatt-hours	**2,336,571**	**2,394,674**	**2,379,380**	**2,341,250**	**2,306,794**	**2,231,900**	**2,135,747**

	1975	1974	1973	1972	1971	1970	1969
SOURCE							
Generation							
Total Electric Utility Industry	1,917,619	1,866,436	1,856,216	1,749,637	1,612,589	1,531,609	1,442,182
Industrials	79,340	94,955	95,761	98,241	96,495	102,440	105,203
Industrials—for Sales to Electric Utility Industry	6,022	6,617	6,768	6,267	6,744	5,722	5,372
Total Generation	**2,002,981**	**1,968,008**	**1,958,745**	**1,854,145**	**1,715,828**	**1,639,771**	**1,552,757**
Imports from Canada & Mexico	11,268	15,420	16,848	10,496	7,043	6,169	4,902
Total Kilowatt-hours	**2,014,249**	**1,983,428**	**1,975,593**	**1,864,641**	**1,722,871**	**1,645,940**	**1,557,659**
DISPOSITION							
Total Sales to Ultimate Customers	1,733,024	1,700,769	1,703,203	1,577,714	1,466,441	1,391,359	1,307,178
Exports to Canada & Mexico	5,083	2,726	2,570	2,752	3,514	4,209	3,830
Energy Used by Producer	3,068	3,059	3,137	3,081	2,854	2,301	2,515
Company Use & Free Service	4,709	4,850	4,912	4,412	3,894	3,984	3,626
Lost and Unaccounted For	189,025	177,069	166,010	178,441	149,673	141,647	135,307
Industrials	79,340	94,955	95,761	98,241	96,495	102,440	105,203
Total Kilowatt-hours	**2,014,249**	**1,983,428**	**1,975,593**	**1,864,641**	**1,722,871**	**1,645,940**	**1,557,659**

	1968	1967	1966	1965	1964	1963	1962
SOURCE							
Generation							
Total Electric Utility Industry	1,329,443	1,214,365	1,144,350	1,055,252	983,990	916,793	854,773
Industrials	103,026	97,856	102,257	99,376	96,821	91,690	89,228
Industrials—for Sales to Electric Utility Industry	3,560	5,079	2,837	2,955	2,930	2,934	2,481
Total Generation	**1,436,029**	**1,317,300**	**1,249,444**	**1,157,583**	**1,083,741**	**1,011,417**	**946,482**
Imports from Canada & Mexico	3,654	4,051	4,268	3,558	6,209	2,083	2,197
Total Kilowatt-hours	**1,439,683**	**1,321,351**	**1,253,712**	**1,161,141**	**1,089,950**	**1,013,500**	**948,679**
DISPOSITION							
Total Sales to Ultimate Customers	1,202,321	1,107,023	1,038,982	953,414	890,356	830,811	776,088
Exports to Canada & Mexico	4,285	4,350	3,176	3,699	4,253	1,985	1,661
Energy Used by Producer	2,469	2,559	2,305	2,802	3,015	2,548	3,173
Company Use & Free Service	3,399	2,956	2,755	2,434	2,303	2,189	2,029
Lost and Unaccounted For	124,183	106,607	104,237	99,416	93,202	84,277	76,500
Industrials	103,026	97,856	102,257	99,376	96,821	91,690	89,228
Total Kilowatt-hours	**1,439,683**	**1,321,351**	**1,253,712**	**1,161,141**	**1,089,950**	**1,013,500**	**948,679**

p Preliminary. r Revised. e Estimated.

Sources: Energy Information Administration, Form 759; Statistics Canada and Edison Electric Institute.

TABLE 10
WORLD POWER DATA
FIFTEEN COUNTRIES WITH GREATEST INSTALLED GENERATING CAPACITY
1981

	Installed Capacity (Kilowatts in Thousands)				Energy Production† (Kwhr in Millions)					
Country	Hydro	Nuclear	Thermal	Total	Hydro	Nuclear	Thermal	Total	Population (Thousands)	Kwhr Per Capita
United States	77,445	60,776	513,887	652,108	262,434	272,674	1,829,954	2,365,062	229,348‡	10,312
U.S.S.R.	54,149	16,000	206,573	276,722	186,744	68,000	1,071,287	1,326,031	268,800	4,933
Japan	31,606	16,255	102,194	150,055	90,567	87,820	404,862	583,249	118,000	4,943
Germany (West)	6,480	9,850	68,300	84,630	21,400	51,000	296,370	368,770	61,200	6,026
Canada	49,224	5,600	28,940	83,764	263,164	36,892	77,568	377,624	24,100	15,669
China (mainland)	23,000	—	48,000	71,000	65,550	—	243,750	309,300	1,004,000	308
United Kingdom	2,451	6,458	61,249	70,158	5,385	37,969	234,381	277,735	55,901	4,968
France	19,500	21,600	28,800	69,900	72,600	113,480	96,400	282,480	53,900	5,241
Italy	15,918	1,113	30,585	47,616	45,700	2,855	133,200	181,755	57,400	3,166
Brazil	31,324	—	6,508	37,832	130,680	—	11,750	142,430	124,700	1,142
India	12,174	860	22,350	35,384	49,155	3,170	73,575	125,900	700,000	180
Spain	12,700	2,000	15,485	30,185	22,909	9,564	78,223	110,696	37,900	2,921
Sweden	14,914	6,425	7,961	29,300	60,220	37,802	5,526	103,548	8,310	12,461
Poland	1,297	—	23,440	24,737	3,014	—	111,992	115,006	35,800	3,212
Australia	6,525	—	17,626	24,151	18,000	—	85,108	103,108	14,927	6,907

† Data presented on a gross generation basis.

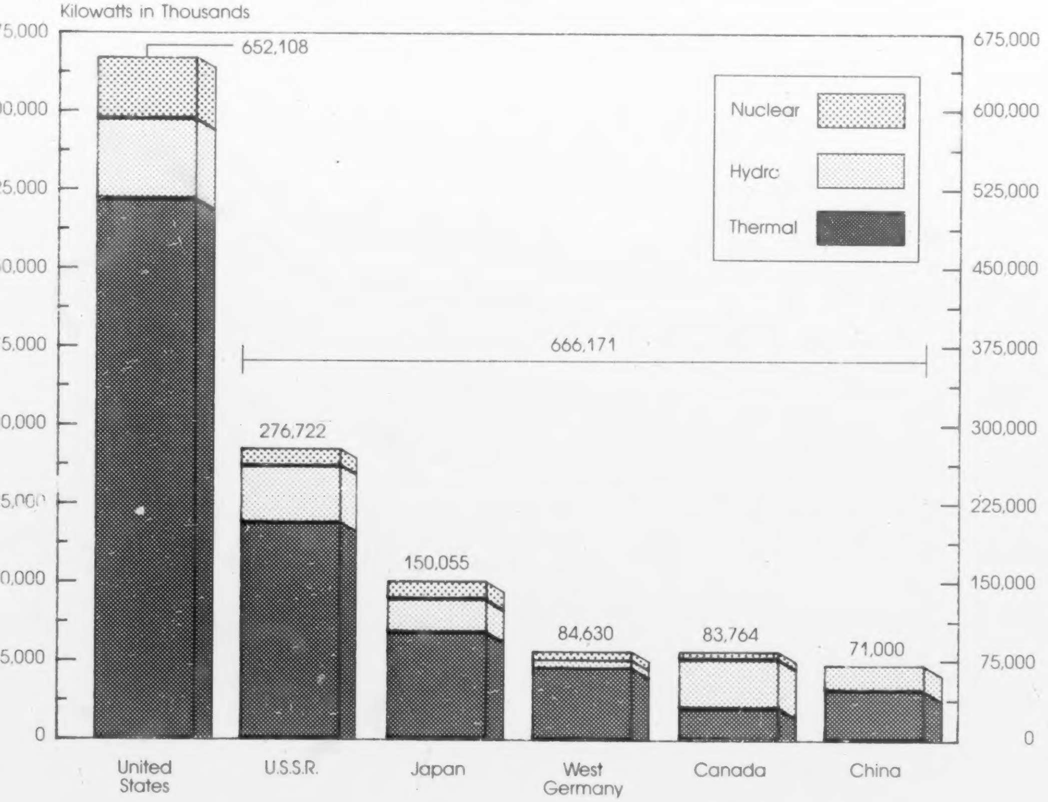
‡ U.S. population July 1, 1981; excludes armed forces abroad. Dept. of Commerce, Bureau of Census.

Sources: Capacity and production: UN 1981 *Yearbook of World Energy Statistics;* population (except as noted): *The World Almanac and Book of Facts*—1983.

Chart II-B

WORLD GENERATING CAPACITY

SIX LARGEST COUNTRIES—1981



Based on Table 10, as shown above.
Source: 1981 United Nation's Yearbook of World Energy Statistics.

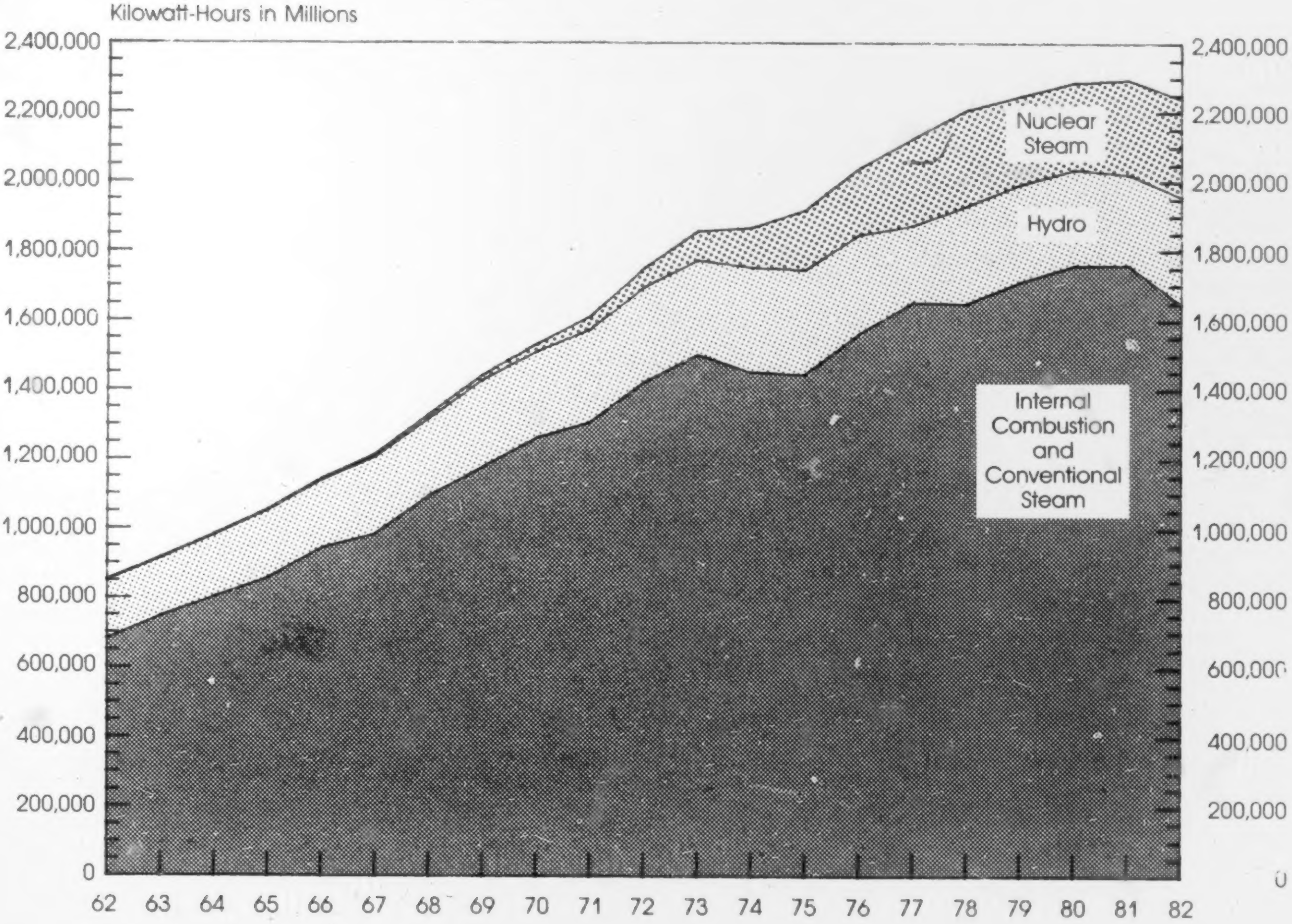
GENERATION

SECTION III

Chart III-A

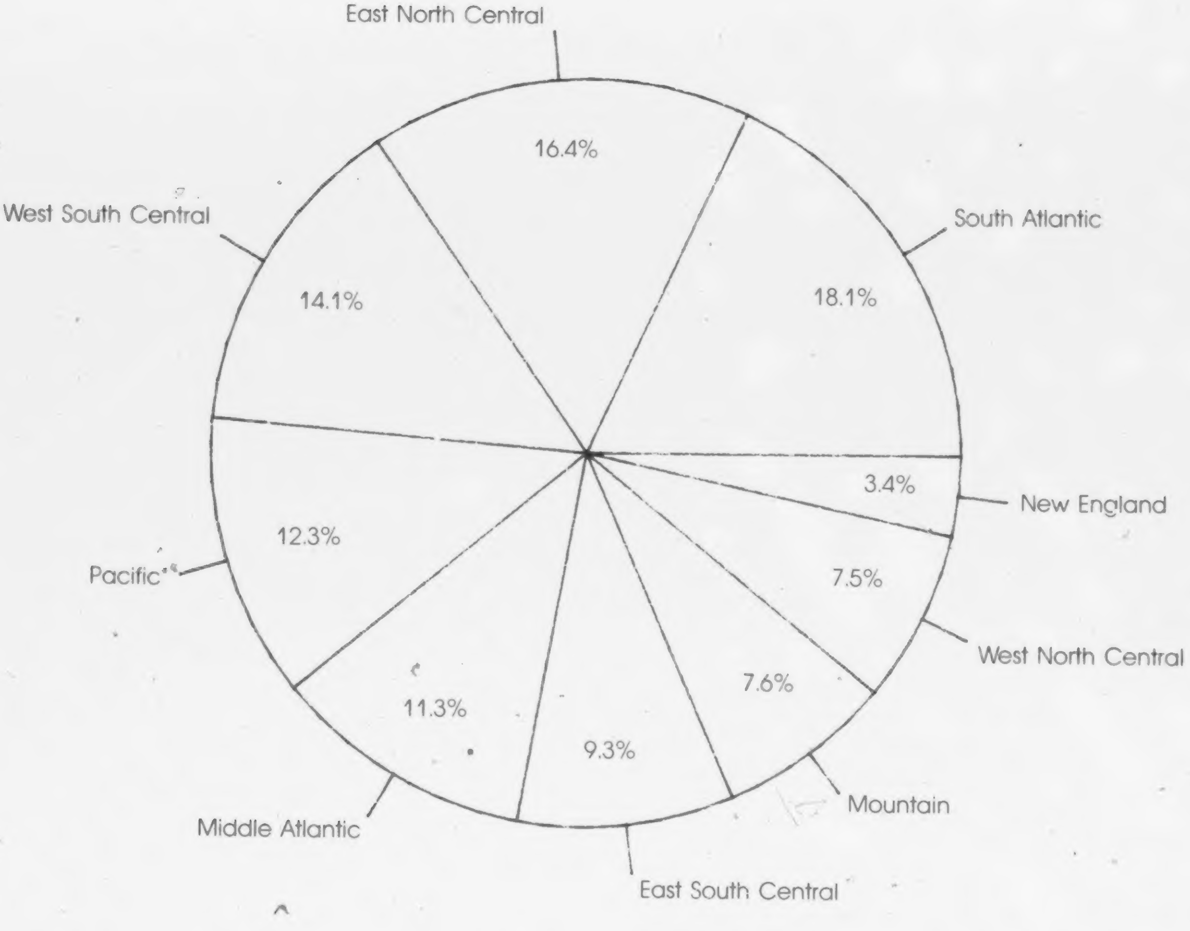
GENERATION BY TYPE OF PRIME MOVER

TOTAL ELECTRIC UTILITY INDUSTRY



Based on Table 12, page 20.
Source: Energy Information Administration, Form 759.

Chart III-B
GENERATION BY CENSUS DIVISIONS
TOTAL ELECTRIC UTILITY INDUSTRY
PERCENT OF MEGAWATT-HOURS: 1982



*Includes Alaska and Hawaii.
Based on Table 15, page 24.
Source: Energy Information Administration, Form 759.

TABLE 12
GENERATION—TOTAL ELECTRIC UTILITY INDUSTRY*
BY OWNERSHIP AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
KILOWATT-HOURS IN MILLIONS

Year	Total Electric Utility Industry	Investor-Owned Utilities	Cooperatives	Subtotal Government	Municipal Utilities	Federal	Power Districts, State Projects
TOTAL (Generation by All Types of Prime Mover)							
1982	**2,241,211**	**1,711,576**	**77,098**	**452,537**	**76,569**	**241,004**	**134,964**
1981r	2,294,812	1,785,500	73,314	435,998	80,701	232,222	123,075
1980	2,286,414	1,782,933	63,550	439,931	86,579	235,051	118,301
1979	2,247,359	1,756,170	54,404	436,785	87,265	235,570	113,950
1978	2,206,313	1,721,163	48,717	436,433	89,700	235,257	111,476
1977	2,124,166	1,684,084	44,884	395,198	83,382	213,633	98,183
1976	2,037,674	1,582,029	41,223	414,422	78,176	236,024	100,222
1975	1,917,619	1,486,844	35,328	395,447	81,518	221,226	92,703
1974	1,866,436	1,442,114	33,844	390,478	78,677	219,821	91,980
1973	1,856,216	1,448,860	35,127	372,229	80,872	211,715	79,642
1972	1,749,637	1,358,929	31,714	358,994	78,931	206,668	73,395
1971	1,612,589	1,248,596	27,227	336,766	72,609	194,462	69,695
1970	1,531,609	1,183,190	23,459	324,960	71,394	185,753	67,813
1969	1,442,182	1,102,162	17,513	322,507	69,614	183,245	69,648
1968	1,329,443	1,019,313	14,140	295,990	63,804	170,834	61,352
1967	1,214,365	928,439	12,389	273,537	57,788	162,399	53,350
1966	1,144,350	880,837	11,175	252,338	52,627	153,067	46,644
1965	1,055,252	809,474	8,571	237,207	49,940	145,231	42,036
1964	983,990	756,183	7,934	219,873	50,263	129,936	39,674
1963	916,793	701,253	6,949	208,591	46,293	124,340	37,958
1962	852,314	651,016	6,063	195,235	41,688	115,776	37,771
HYDRO (Generation of Generators Driven by Water Wheels and Turbines)							
1982	**309,213**	**81,527**	**294**	**227,392**	**17,061**	**148,027**	**62,305**
1981r	260,684	61,680	231	198,773	13,700	128,690	56,383
1980	276,039	70,500	267	205,272	15,603	131,909	57,760
1979	279,790	74,105	244	205,441	13,270	137,212	54,959
1978	280,432	72,381	275	207,776	14,889	136,804	56,083
1977	220,446	55,343	220	164,883	8,572	111,951	44,360
1976	283,734	68,034	221	215,479	14,444	144,218	56,817
1975	300,065	81,524	251	218,290	16,619	142,943	58,728
1974	300,928	81,204	197	219,527	17,218	137,882	64,427
1973	271,634	77,451	229	193,954	13,439	123,148	57,367
1972	272,626	76,820	220	195,586	15,152	126,328	54,106
1971	266,314	76,521	243	189,550	14,765	121,573	53,212
1970	247,456	70,587	214	176,655	14,453	110,695	51,507
1969	250,193	74,833	215	175,145	15,494	105,687	53,964
1968	222,491	67,201	239	155,051	13,043	94,874	47,134
1967	221,518	72,072	223	149,223	10,602	96,228	42,393
1966	194,756	62,827	214	131,715	8,106	86,260	37,349
1965	193,851	67,366	281	126,204	8,580	82,769	34,855
1964	177,073	60,323	219	116,531	8,460	75,771	32,300
1963	165,755	59,439	213	106,103	7,477	68,494	30,132
1962	168,283	62,786	225	105,272	6,215	68,276	30,781
CONVENTIONAL STEAM (Generation of Generators Driven by Steam Engines and Turbines)							
1982	**1,646,883**	**1,396,336**	**76,481**	**174,066**	**54,507**	**65,682**	**53,878**
1981r	1,758,660	1,492,062	72,619	193,980	62,421	80,715	50,844
1980	1,755,634	1,499,918	62,803	192,913	63,899	83,715	45,299
1979	1,708,256	1,472,652	53,609	181,995	65,100	77,948	38,947
1978	1,644,756	1,415,266	47,887	181,603	66,212	81,535	33,856
1977	1,648,105	1,422,684	44,193	181,228	65,402	83,202	32,624
1976	1,557,647	1,346,179	38,409	173,059	57,547	87,584	27,928
1975	1,439,374	1,249,623	33,647	156,104	57,958	75,549	22,597
1974	1,445,808	1,261,009	32,887	151,912	56,605	75,640	19,667
1973	1,494,901	1,292,888	34,108	167,905	62,422	88,240	17,243
1972	1,416,218	1,229,998	30,713	155,507	58,814	80,324	16,369
1971	1,301,960	1,135,674	26,245	140,041	53,246	72,866	13,929
1970	1,256,294	1,092,564	22,610	141,120	52,380	75,048	13,692
1969	1,172,481	1,016,361	16,760	139,360	49,800	77,544	12,016
1968	1,089,239	942,927	13,332	132,980	46,744	75,927	10,309
1967	980,336	850,541	11,434	118,361	43,292	66,136	8,933
1966	938,910	813,329	10,104	115,477	40,405	66,769	8,303
1965	852,655	738,319	7,401	106,935	37,333	62,419	7,183
1964	798,564	692,416	6,855	99,293	37,891	54,123	7,279
1963	742,780	638,431	5,915	98,434	34,893	55,794	7,747
1962	676,956	585,724	5,101	86,131	31,685	47,458	6,988

See page 21 for footnotes.

TABLE 12 (continued)
GENERATION—TOTAL ELECTRIC UTILITY INDUSTRY*
BY OWNERSHIP AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
KILOWATT-HOURS IN MILLIONS

Year	Total Electric Utility Industry	Investor-Owned Utilities	Cooperatives	Subtotal Government	Municipal Utilities	Federal	Power Districts, State Projects
NUCLEAR STEAM (Generation of Generators Driven by Nuclear Reactors)							
1982	**282,773**	**233,213**	**137**	**49,423**	**3,349**	**27,294**	**18,780**
1981r	272,674	231,190	241	41,243	2,585	22,810	15,847
1980	251,121	211,831	214	39,076	4,426	19,413	15,237
1979	255,155	208,788	201	46,166	5,729	20,402	20,035
1978	276,403	232,742	174	43,487	5,046	16,911	21,530
1977	250,882	205,257	89	45,536	5,865	18,473	21,198
1976	191,107	167,098	2,157	21,852	2,161	4,214	15,477
1975	172,506	154,985	951	16,570	2,470	2,722	11,378
1974	113,727	99,042	313	14,372	198	6,289	7,885
1973	83,334	77,790	199	5,345	—	314	5,031
1972	54,092	50,933	240	2,919	—	—	2,919
1971	38,106	35,357	196	2,553	—	—	2,553
1970	21,797	19,063	120	2,614	—	—	2,614
1969	13,928	10,261	—	3,667	—	—	3,667
1968	12,528	8,611	15	3,902	—	—	3,902
1967	7,655	5,499	141	2,015	—	—	2,015
1966	5,520	4,400	129	991	2	—	989
1965	3,657	3,497	143	17	22	—	(5)
1964	3,343	3,179	56	108	17	—	91
1963	3,212	3,136	1	75	—	—	75
1962	2,270	2,270	—	—	—	—	—
INTERNAL COMBUSTION (Generation of Generators Driven by Internal Combustion Engines)							
1982	**2,343**	**501**	**186**	**1,656**	**1,653**	2	1
1981r	2,795	568	224	2,003	1,995	7	1
1980	3,620	684	266	2,670	2,651	14	5
1979	4,158	625	350	3,183	3,166	8	9
1978	4,722	774	381	3,567	3,553	7	7
1977	4,733	800	382	3,551	3,543	7	1
1976	5,186	718	436	4,032	4,024	8	—
1975	5,674	712	479	4,483	4,471	12	—
1974	5,973	859	447	4,667	4,656	10	1
1973	6,347	731	591	5,025	5,011	13	1
1972	6,701	1,178	541	4,982	4,965	16	1
1971	6,209	1,044	543	4,622	4,598	23	1
1970	6,062	976	515	4,571	4,561	10	—
1969	5,580	707	538	4,335	4,320	14	1
1968	5,185	574	554	4,057	4,017	33	7
1967	4,856	327	591	3,938	3,894	35	9
1966	5,164	281	728	4,155	4,114	38	3
1965	5,089	292	746	4,051	4,005	43	3
1964	5,010	265	804	3,941	3,895	42	4
1963	5,046	247	820	3,979	3,923	52	4
1962	4,805	236	737	3,832	3,788	42	2

Note: Total may not equal sum of components due to independent rounding.
*Alaska and Hawaii included since 1963. r Revised.
( ) Denotes negative figure.
Source: Energy Information Administration, Form 759.

TABLE 13
GENERATION PER KILOWATT OF INSTALLED NAME PLATE CAPACITY
TOTAL ELECTRIC UTILITY INDUSTRY
BY OWNERSHIP AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
KILOWATT-HOURS

Year	Total Electric Utility Industry	Investor-Owned	Cooperatives	Government-Owned	Total Electric Utility Industry	Investor-Owned	Cooperatives	Government-Owned
	TOTAL				HYDRO			
1982	**3,489**	**3,458**	**3,868**	**3,547**	**3,983**	**3,334**	**3,973**	**4,281**
1981r	3,676	3,690	4,335	3,533	3,396	2,541	3,448	3,792
1980	3,773	3,789	4,344	3,641	3,639	2,929	3,985	3,968
1979	3,816	3,827	4,272	3,725	3,823	3,103	3,642	4,173
1978	3,872	3,859	4,326	3,877	4,013	3,080	4,104	4,486
1977	3,892	3,945	4,308	3,646	3,230	2,391	3,284	3,660
1976	3,920	3,884	4,320	4,024	4,244	2,942	3,299	4,935
1975	3,895	3,836	4,254	4,102	4,634	3,556	4,149	5,226
1974	4,075	3,991	4,585	4,371	4,802	3,649	3,582	5,439
1973	4,427	4,385	5,021	4,545	4,597	3,788	4,164	5,027
1972	4,557	4,510	5,210	4,693	4,855	4,022	4,074	5,287
1971	4,541	4,532	5,122	4,534	4,800	4,035	4,418	5,198
1970	4,681	4,707	4,949	4,570	4,591	3,785	3,821	5,018
1969	4,772	4,783	4,518	4,749	4,815	4,069	3,805	5,226
1968	4,745	4,804	4,382	4,571	4,482	3,685	4,193	4,946
1967	4,697	4,770	4,289	4,482	4,759	4,176	3,912	5,105
1966	4,729	4,850	4,411	4,363	4,388	3,869	3,722	4,690
1965	4,604	4,689	3,963	4,360	4,510	4,292	4,845	4,635
1964	4,547	4,637	4,079	4,278	4,298	4,033	3,776	4,450
1963	4,561	4,623	4,070	4,380	4,270	4,207	3,822	4,307
1962	4,586	4,628	4,064	4,466	4,622	4,623	4,592	4,620
	STEAM				INTERNAL COMBUSTION			
1982	**3,449**	**3,477**	**3,924**	**3,139**	**437**	**285**	**554**	**506**
1981r	3,748	3,764	4,417	3,478	501	303	638	598
1980	3,825	3,849	4,433	3,528	655	372	764	800
1979	3,849	3,881	4,381	3,527	753	347	903	956
1978	3,885	3,916	4,446	3,578	872	457	992	1,069
1977	4,022	4,048	4,423	3,777	893	487	1,129	1,070
1976	3,906	3,956	4,437	3,478	1,000	454	1,313	1,233
1975	3,815	3,868	4,375	3,358	1,127	479	1,423	1,396
1974	3,995	4,029	4,756	3,629	1,206	592	1,294	1,478
1973	4,441	4,444	5,200	4,298	1,300	478	1,723	1,668
1972	4,551	4,563	5,440	4,318	1,434	778	1,577	1,769
1971	4,540	4,589	5,377	4,063	1,406	769	1,578	1,702
1970	4,751	4,803	5,234	4,321	1,417	751	1,510	1,733
1969	4,820	4,869	4,819	4,493	1,364	593	1,575	1,695
1968	4,862	4,934	4,734	4,425	1,330	535	1,583	1,639
1967	4,742	4,851	4,671	4,096	1,326	364	1,672	1,633
1966	4,864	4,967	4,816	4,247	1,502	368	2,074	1,789
1965	4,682	4,749	4,288	4,291	1,523	390	2,159	1,802
1964	4,664	4,720	4,467	4,320	1,526	358	2,365	1,790
1963	4,690	4,688	4,463	4,719	1,597	316	2,491	1,875
1962	4,638	4,651	4,546	4,553	1,599	350	2,296	1,906

r Revised.

Source: Energy Information Administration data as shown in Tables 2 and 12.

TABLE 14
GENERATION IN PERCENT OF TOTAL—TOTAL ELECTRIC UTILITY INDUSTRY
BY OWNERSHIP AND TYPE OF PRIME MOVER DRIVING THE GENERATOR

Year	TOTAL Investor-Owned	TOTAL Cooperatives	TOTAL Government-Owned	HYDRO Total	HYDRO Investor-Owned	HYDRO Cooperatives	HYDRO Government-Owned	CONVENTIONAL STEAM Total	CONVENTIONAL STEAM Investor-Owned	CONVENTIONAL STEAM Cooperatives	CONVENTIONAL STEAM Government-Owned
1982	**76.4**	**3.4**	**20.2**	**13.8**	**3.7**	**0.0**	**10.1**	**73.5**	**62.3**	**3.4**	**7.8**
1981r	77.8	3.2	19.0	11.4	2.7	0.0	8.7	76.6	65.0	3.2	8.4
1980	78.0	2.8	19.2	12.1	3.1	0.0	9.0	76.8	65.6	2.8	8.4
1979	78.1	2.4	19.5	12.4	3.3	0.0	9.1	76.0	65.5	2.4	8.1
1978	78.0	2.2	19.8	12.7	3.3	0.0	9.4	74.6	64.2	2.2	8.2
1977	79.3	2.1	18.6	10.4	2.6	0.0	7.8	77.6	67.0	2.1	8.5
1976	77.7	2.0	20.3	13.9	3.3	0.0	10.6	76.4	66.1	1.9	8.4
1975	77.5	1.9	20.6	15.6	4.2	0.0	11.4	75.1	65.2	1.8	8.1
1974	77.3	1.8	20.9	16.1	4.4	0.0	11.7	77.5	67.6	1.8	8.1
1973	78.1	1.9	20.0	14.6	4.2	0.0	10.4	80.6	69.7	1.9	9.0
1972	77.7	1.8	20.5	15.6	4.4	0.0	11.2	80.9	70.3	1.8	8.8
1971	77.4	1.7	20.9	16.5	4.7	0.0	11.8	80.7	70.4	1.7	8.6
1970	77.3	1.5	21.2	16.2	4.7	0.0	11.5	82.0	71.3	1.5	9.2
1969	76.4	1.2	22.4	17.3	5.2	0.0	12.1	81.3	70.4	1.2	9.7
1968	76.7	1.0	22.3	16.8	5.1	0.0	11.7	81.9	70.9	1.0	10.0
1967	76.5	1.0	22.5	18.2	5.9	0.0	12.3	80.7	70.1	0.9	9.7
1966	77.0	1.0	22.0	17.0	5.5	0.0	11.5	82.1	71.1	0.9	10.1
1965	76.7	0.8	22.5	18.4	6.4	0.0	12.0	80.8	70.0	0.7	10.1
1964	76.8	0.8	22.4	18.0	6.1	0.0	11.9	81.2	70.4	0.7	10.1
1963	76.5	0.7	22.8	18.1	6.5	0.0	11.6	81.1	69.7	0.6	10.8
1962	76.4	0.7	22.9	19.7	7.4	0.0	12.3	79.4	68.7	0.6	10.1

Year	NUCLEAR STEAM Total	NUCLEAR STEAM Investor-Owned	NUCLEAR STEAM Cooperatives	NUCLEAR STEAM Government-Owned	INTERNAL COMBUSTION Total	INTERNAL COMBUSTION Investor-Owned	INTERNAL COMBUSTION Cooperatives	INTERNAL COMBUSTION Government-Owned
1982	**12.6**	**10.4**	**0.0**	**2.2**	**0.1**	**0.0**	**0.0**	**0.1**
1981r	11.9	10.1	0.0	1.8	0.1	0.0	0.0	0.1
1980	11.0	9.3	0.0	1.7	0.1	0.0	0.0	0.1
1979	11.4	9.3	0.0	2.1	0.2	0.0	0.0	0.2
1978	12.5	10.5	0.0	2.0	0.2	0.0	0.0	0.2
1977	11.8	9.7	0.0	2.1	0.2	0.0	0.0	0.2
1976	9.4	8.2	0.1	1.1	0.3	0.1	0.0	0.2
1975	9.0	8.0	0.1	0.9	0.3	0.1	0.0	0.2
1974	6.1	5.3	0.0	0.8	0.3	0.0	0.0	0.3
1973	4.5	4.2	0.0	0.3	0.3	0.0	0.0	0.3
1972	3.1	2.9	0.0	0.2	0.4	0.1	0.0	0.3
1971	2.4	2.2	0.0	0.2	0.4	0.1	0.0	0.3
1970	1.4	1.2	0.0	0.2	0.4	0.1	0.0	0.3
1969	1.0	0.7	0.0	0.3	0.4	0.1	0.0	0.3
1968	1.0	0.7	0.0	0.3	0.3	0.0	0.0	0.3
1967	0.7	0.5	0.0	0.2	0.4	0.0	0.1	0.3
1966	0.5	0.4	0.0	0.1	0.4	0.0	0.1	0.3
1965	0.3	0.3	0.0	0.0	0.5	0.0	0.1	0.4
1964	0.3	0.3	0.0	0.0	0.5	0.0	0.1	0.4
1963	0.3	0.3	0.0	0.0	0.5	0.0	0.1	0.4
1962	0.3	0.3	0.0	0.0	0.6	0.0	0.1	0.5

r Revised.
Source: Energy Information Administration data as shown in Table 12.

TABLE 15
GENERATION—TOTAL ELECTRIC UTILITY INDUSTRY
BY STATE AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
1981r and 1982—KILOWATT-HOURS IN MILLIONS

Division/State	Total Electric Utility Industry		Hydro		Conventional Steam		Nuclear Steam		Internal Combustion	
	1982	1981r	1982	1981r	1982	1981r	1982	1981r	1982	1981r
Total United States	**2,241,211**	**2,294,812**	**309,213**	**260,684**	**1,646,883**	**1,758,660**	**282,773**	**272,674**	**2,343**	**2,795**
Maine	8,324	9,252	1,970	1,880	1,828	2,153	4,524	5.212	2	7
New Hampshire	4,784	5,563	1,095	1,206	3,689	4,356	—	—	—	—
Vermont	5,052	4,568	776	933	100	65	4,174	3,569	1	2
Massachusetts	33,986	32,931	189	368	29,522	28,120	4,173	4,331	102	113
Rhode Island	442	819	3	—	432	811	—	—	7	8
Connecticut	24,417	23,779	365	254	10,427	10,849	13,625	12,673	—	3
New England	**77,005**	**76,911**	**4,398**	**4,641**	**45,998**	**46,354**	**26,497**	**25,785**	**113**	**131**
New York	101,935	105,832	25,329	25,658	62,128	62,687	14,438	17,444	40	42
New Jersey	31,465	31,730	(225)	(234)	17,651	20,289	14,039	11,675	—	—
Pennsylvania	118,974	116,593	1,828	659	100,664	101,647	16,472	14,276	9	12
Middle Atlantic	**252,373**	**254,155**	**26,933**	**26,083**	**180,443**	**184,623**	**44,949**	**43,395**	**49**	**54**
Ohio	105,153	111,754	5	6	101,907	107,323	3,226	4,407	14	19
Indiana	63,826	67,766	428	509	63,393	67,232	—	—	5	25
Illinois	93,660	98 871	107	117	65,802	69,133	27,625	29,483	125	138
Michigan	68,703	75,595	1,094	1,124	52,451	57,203	15,003	17,066	155	202
Wisconsin	37,393	37,059	2,164	1,884	24,959	25,450	10,268	9,719	3	6
East North Central	**368,734**	**391,046**	**3,798**	**3,638**	**308,512**	**326,342**	**56,122**	**60,675**	**302**	**391**
Minnesota	28,547	31,502	861	793	17,463	20,473	10,197	10,187	25	49
Iowa	21,867	22,617	917	980	18,674	19,429	2,269	2,204	7	4
Missouri	49,063	48,801	1,656	669	47,352	48,034	—	—	55	98
North Dakota	18,314	16,061	2,553	2,250	15,761	13,810	—	—	—	1
South Dakota	7,920	7,950	5,394	5,274	2,527	2,676	—	—	(1)	—
Nebraska	18,269	16,063	1,212	1,197	8,251	8,813	8,753	5,988	53	65
Kansas	23,220	24,544	7	8	22,727	23,930	—	—	487	606
West North Central	**167,200**	**167,538**	**12,600**	**11,171**	**132,755**	**137,165**	**21,219**	**18,379**	**626**	**823**
Delaware	7,016	8,320	—	—	7,016	8,320	—	—	—	—
Maryland	29,755	30,144	1,341	1,426	18,018	17,135	10,345	11,523	50	60
District of Columbia	87	358	—	—	87	358	—	—	—	—
Virginia	36,600	37,481	913	338	18,258	19,312	17,420	17,818	8	13
West Virginia	68,285	73,540	428	400	67,857	73,140	—	—	—	—
North Carolina	74,496	72,004	5,405	2,927	59,964	62,830	9,126	6,246	—	—
South Carolina	36,778	41,250	2,380	1,208	21,241	22,715	13,156	17,327	—	—
Georgia	59,985	61,923	3,598	2,274	49,781	52,414	6,606	7,235	—	—
Florida	92,047	98,999	261	180	72,158	84,039	19,319	14,448	310	332
South Atlantic	**405,048**	**424,019**	**14,326**	**8,752**	**314,381**	**340,264**	**75,973**	**74,597**	**368**	**406**
Kentucky	58,111	60,095	3,343	2,598	54,768	57,497	—	—	—	—
Tennessee	59,505	58,957	9,769	5,915	39,632	48,338	10,104	4,704	—	—
Alabama	74,680	74,774	10,707	6,014	36,272	45,117	27,701	23,643	—	—
Mississippi	16,971	14,798	—	—	16,971	14,798	—	—	—	—
East South Central	**209,267**	**208,624**	**23,819**	**14,527**	**147,643**	**165,750**	**37,805**	**28,347**	—	—
Arkansas	23,479	25,308	2,106	1,235	13,890	14,996	7,482	9,075	—	2
Louisiana	41,535	44,110	—	—	41,511	44,073	—	—	24	37
Oklahoma	44,926	44,075	2,090	1,122	42,750	42,852	—	—	87	102
Texas	206,393	207,257	1,027	1,145	205,239	205,966	—	—	126	145
West South Central	**316,333**	**320,750**	**5,223**	**3,502**	**303,390**	**307,887**	**7,482**	**9,075**	**237**	**286**
Montana	14,844	16,593	10,920	11,323	3,924	5,270	—	—	—	—
Idaho	11,592	9,508	11,591	9,507	1	1	—	—	—	—
Wyoming	27,535	26,423	850	841	26,686	25,582	—	—	(1)	—
Colorado	25,578	25,404	1,649	1,398	23,354	23,247	569	749	5	10
New Mexico	23,758	23,017	79	88	23,650	22,899	—	—	30	29
Arizona	38,720	40,575	7,000	6,788	31,720	33,787	—	—	—	—
Utah	11,892	11,761	1,024	623	10,866	11,133	—	—	1	5
Nevada	15,585	15,724	1,420	1,729	14,165	13,996	—	—	(1)	(1)
Mountain	**169,503**	**169,005**	**34,534**	**32,296**	**134,365**	**135,915**	**569**	**749**	**35**	**44**
Washington	96,691	102,649	87,576	93,572	5,484	7,035	3,631	2,042	—	—
Oregon	50,771	40,382	45,195	32,132	784	1,827	4,792	6,424	—	—
California	118,321	129,986	50,226	29,764	64,342	96,972	3,735	3,206	17	44
Pacific	**265,783**	**273,017**	**182,997**	**155,468**	**70,610**	**105,833**	**12,158**	**11,672**	**17**	**44**
Alaska	3,597	3,188	561	590	2,738	2,317	—	—	298	281
Hawaii	6,367	6,560	23	14	6,046	6,210	—	—	297	336
Alaska & Hawaii	**9,964**	**9,748**	**585**	**604**	**8,784**	**8,528**	—	—	**595**	**617**

Note: Total may not equal sum of components due to independent rounding.
r Revised. ( ) Denotes negative figure.
Source: Energy Information Administration, Form 759.

TABLE 16
GENERATION—INVESTOR-OWNED ELECTRIC UTILITIES
BY STATE AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
1981r and 1982—KILOWATT-HOURS IN MILLIONS

Division/State	Total Investor-Owned Utilities		Hydro		Conventional Steam		Nuclear Steam		Internal Combustion	
	1982	1981r	1982	1981r	1982	1981r	1982	1981r	1982	1981r
Total United States	**1,711,576**	**1,785,500**	**81,527**	**61,680**	**1,396,336**	**1,492,062**	**233,213**	**231,190**	**501**	**568**
Maine	8,317	9,242	1,963	1,873	1,828	2,153	4,524	5,212	2	4
New Hampshire	4,784	5,563	1,095	1,206	3,689	4,356	—	—	—	—
Vermont	4,904	4,449	726	875	3	3	4,174	3,569	1	2
Massachusetts	33,376	32,564	152	324	28,979	27,831	4,173	4,331	72	79
Rhode Island	438	819	—	—	432	811	—	—	7	8
Connecticut	24,384	23,746	351	242	10,407	10,830	13,625	12,673	—	1
New England	**76,203**	**76,382**	**4,286**	**4,520**	**45,339**	**45,984**	**26,497**	**25,785**	**82**	**93**
New York	69,978	74,395	3,616	3,721	58,316	61,043	8,041	9,627	5	4
New Jersey	31,273	31,504	(225)	(235)	17,459	20,064	14,039	11,675	—	—
Pennsylvania	118,957	116,583	1,828	659	100,648	101,637	16,472	14,276	9	12
Middle Atlantic	**220,209**	**222,463**	**5,219**	**4,145**	**176,423**	**182,744**	**38,552**	**35,578**	**14**	**16**
Ohio	104,194	110,714	—	—	100,963	106,301	3,226	4,407	5	7
Indiana	60,705	65,371	427	508	60,277	64,861	—	—	—	2
Illinois	90,981	95,766	57	65	63,299	66,217	27,625	29,483	1	1
Michigan	64,424	71,258	857	896	48,565	53,291	15,003	17,066	(2)	5
Wisconsin	33,300	32,818	1,954	1,702	21,214	21,637	10,131	9,478	—	—
East North Central	**353,604**	**375,927**	**3,296**	**3,171**	**294,318**	**312,306**	**55,985**	**60,434**	**5**	**16**
Minnesota	27,601	30,365	850	783	16,555	19,395	10,197	10,187	—	(1)
Iowa	20,725	21,507	907	970	17,549	18,335	2,269	2,204	(1)	(1)
Missouri	35,120	36,563	745	492	34,374	36,072	—	—	1	—
North Dakota	2,517	1,711	—	—	2,517	1,710	—	—	—	1
South Dakota	2,523	2,677	1	1	2,524	2,676	—	—	(1)	—
Nebraska	—	—	—	—	—	—	—	—	—	—
Kansas	20,028	21,003	7	8	20,022	20,995	—	—	—	—
West North Central	**108,513**	**113,826**	**2,509**	**2,253**	**93,540**	**99,184**	**12,466**	**12,391**	**(1)**	**(2)**
Delaware	6,621	7,702	—	—	6,621	7,702	—	—	—	—
Maryland	29,706	30,089	1,341	1,426	18,018	17,135	10,345	11,523	2	6
District of Columbia	87	358	—	—	87	358	—	—	—	—
Virginia	36,072	37,232	426	134	18,223	19,275	17,420	17,818	3	5
West Virginia	68,285	73,540	428	400	67,857	73,140	—	—	—	—
North Carolina	73,183	71,324	4,124	2,283	59,933	62,795	9,126	6,246	—	—
South Carolina	27,160	31,699	1,248	456	12,756	13,915	13,156	17,327	—	—
Georgia	58,412	60,986	2,029	1,355	49,778	52,397	6,606	7,235	—	—
Florida	79,325	84,888	—	—	60,006	70,439	19,319	14,448	1	1
South Atlantic	**378,851**	**397,819**	**9,595**	**6,053**	**293,278**	**317,157**	**75,973**	**74,597**	**5**	**12**
Kentucky	24,742	25,191	442	481	24,300	24,711	—	—	—	—
Tennessee	755	473	755	473	—	—	—	—	—	—
Alabama	41,161	37,006	5,024	2,613	25,625	28,856	10,512	5,537	—	—
Mississippi	14,657	12,433	—	—	14,657	12,433	—	—	—	—
East South Central	**81,316**	**75,103**	**6,221**	**3,566**	**64,583**	**66,000**	**10,512**	**5,537**	**—**	**—**
Arkansas	21,257	23,719	176	140	13,599	14,505	7,482	9,075	—	—
Louisiana	35,157	38,310	—	—	35,150	38,303	—	—	7	7
Oklahoma	37,135	38,936	—	—	37,130	38,924	—	—	5	12
Texas	178,274	180,696	55	60	178,218	180,628	—	—	1	9
West South Central	**271,822**	**281,661**	**230**	**199**	**264,096**	**272,360**	**7,482**	**9,075**	**13**	**27**
Montana	9,110	10,550	5,186	5,280	3,924	5,270	—	—	—	—
Idaho	8,229	6,385	8,228	6,384	1	1	—	—	—	—
Wyoming	20,666	20,778	—	—	20,667	20,779	—	—	(1)	—
Colorado	13,829	12,990	125	(25)	13,132	12,264	569	749	3	2
New Mexico	23,268	22,489	—	—	23,257	22,477	—	—	12	12
Arizona	8,227	9,125	31	34	8,196	9,090	—	—	—	—
Utah	11,142	11,252	288	144	10,854	11,108	—	—	—	—
Nevada	14,223	14,047	58	52	14,165	13,996	—	—	(1)	(1)
Mountain	**108,694**	**107,616**	**13,917**	**11,869**	**94,194**	**94,985**	**569**	**749**	**14**	**13**
Washington	10,096	11,293	4,612	4,258	5,484	7,035	—	—	—	—
Oregon	14,567	14,859	9,030	6,728	745	1,707	4,792	6,424	—	(1)
California	81,237	101,878	22,545	14,852	58,289	86,389	386	621	17	16
Pacific	**105,901**	**128,030**	**36,188**	**25,839**	**64,518**	**95,131**	**5,178**	**7,045**	**17**	**15**
Alaska	97	93	42	52	—	—	—	—	55	41
Hawaii	6,367	6,560	23	14	6,046	6,210	—	—	297	336
Alaska & Hawaii	**6,464**	**6,653**	**65**	**66**	**6,046**	**6,210**	**—**	**—**	**352**	**377**

Note: Total may not equal sum of components due to independent rounding.
r Revised. ( ) Denotes negative figure.
Source: Energy Information Administration, Form 759.

TABLE 17
GENERATION—TOTAL ELECTRIC UTILITY INDUSTRY AND INVESTOR-OWNED ELECTRIC UTILITIES
BY MONTH AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
1979–1982—KILOWATT-HOURS IN MILLIONS

	Total Electric Utility Industry					Investor-Owned Electric Utilities				
Year—Month	Total	Hydro	Conventional Steam	Nuclear Steam	Internal Combustion	Total	Hydro	Conventional Steam	Nuclear Steam	Internal Combustion
YEAR—1982										
January	209,403	26,896	156,585	25,678	245	161,670	7,028	132,967	21,620	54
February	180,299	26,690	133,220	20,188	201	137,702	7,501	113,535	16,621	47
March	187,687	29,885	134,849	22,755	199	141,710	8,099	115,303	18,253	54
April	172,580	27,928	122,700	21,785	167	130,240	8,104	104,611	17,484	40
May	177,147	27,971	127,366	21,639	172	133,958	7,858	108,371	17,689	40
June	186,128	27,953	133,956	24,026	194	140,529	7,201	113,437	19,852	39
July	210,584	27,294	157,548	25,467	274	160,154	6,188	133,100	20,819	48
August	205,656	23,894	156,517	24,986	258	157,181	5,234	131,339	20,566	42
September	180,662	19,896	135,192	25,391	184	139,937	4,933	114,180	20,793	31
October	172,966	19,750	129,818	23,248	150	134,491	5,013	110,455	18,991	32
November	173,377	23,297	126,696	23,235	150	132,487	6,141	106,904	19,407	35
December	184,722	27,760	132,437	24,376	149	141,517	8,228	112,133	21,118	38
Total	**2,241,211**	**309,213**	**1,646,883**	**282,773**	**2,343**	**1,711,576**	**81,527**	**1,396,336**	**233,213**	**501**
YEAR—1981r										
January	206,467	22,338	160,077	23,779	272	160,639	4,706	136,541	19,321	71
February	179,613	21,099	136,711	21,595	208	140,656	5,576	116,577	18,456	47
March	185,553	20,572	142,779	22,004	197	145,825	5,509	122,102	18,165	48
April	172,545	20,723	130,977	20,646	199	134,957	5,999	111,991	16,922	45
May	177,806	24,081	133,795	19,723	207	135,723	5,697	113,027	16,953	45
June	202,702	26,370	154,906	21,166	261	155,322	5,877	131,226	18,170	49
July	220,373	25,133	171,816	23,080	345	168,830	4,640	145,246	18,885	59
August	210,403	21,615	161,559	26,946	283	163,033	3,887	135,474	23,623	49
September	186,838	17,822	144,387	24,398	232	147,532	4,053	122,185	21,253	41
October	181,352	18,088	142,507	20,556	200	144,267	4,581	121,541	18,109	37
November	175,570	18,963	133,643	22,783	180	137,858	5,026	113,449	19,347	36
December	195,590	23,879	145,503	25,997	212	150,859	6,130	122,703	21,984	42
Total	**2,294,812**	**260,684**	**1,758,660**	**272,674**	**2,795**	**1,785,500**	**61,680**	**1,492,062**	**231,190**	**568**
YEAR—1980										
January	200,005	25,278	154,629	19,746	352	155,817	6,907	132,169	16,675	66
February	188,715	21,378	147,728	19,277	332	148,462	5,728	125,690	16,981	63
March	187,465	24,332	142,769	20,039	325	146,235	6,949	121,630	17,578	78
April	168,721	25,748	123,913	18,794	266	131,284	8,280	107,227	15,733	44
May	175,734	28,865	128,248	18,385	236	133,351	7,701	110,427	15,182	41
June	189,429	27,656	143,168	18,322	283	143,473	6,235	122,360	14,833	45
July	216,776	24,469	170,825	21,024	458	168,424	5,091	145,525	17,729	79
August	215,393	20,431	170,233	24,333	396	169,610	4,255	144,780	20,508	67
September	191,484	18,491	149,142	23,572	279	150,724	4,377	126,455	19,847	45
October	178,556	17,866	135,961	24,510	219	142,652	4,568	116,852	21,187	45
November	178,550	19,217	138,109	20,984	240	140,768	4,871	118,097	17,745	55
December	195,586	22,308	150,909	22,135	234	152,133	5,538	128,706	17,833	56
Total	**2,286,414**	**276,039**	**1,755,634**	**251,121**	**3,620**	**1,782,933**	**70,500**	**1,499,918**	**211,831**	**684**
YEAR—1979										
January	209,688	25,021	156,420	27,792	455	164,281	6,744	134,369	23,074	94
February	186,335	21,275	138,752	25,911	397	146,899	5,926	119,747	21,143	83
March	182,850	25,921	132,287	24,335	307	143,054	8,293	115,159	19,559	43
April	169,960	25,389	125,866	18,418	287	132,061	7,999	109,673	14,345	44
May	178,068	28,939	133,803	15,025	301	136,046	7,568	116,067	12,366	45
June	186,679	24,979	145,303	16,065	332	144,758	6,166	125,626	12,922	44
July	202,253	22,761	158,262	20,825	405	158,199	5,128	136,078	16,949	44
August	204,847	21,260	158,959	24,204	424	161,113	4,535	136,428	20,098	52
September	180,750	18,978	139,637	21,804	331	142,722	4,661	119,687	18,328	46
October	179,714	20,167	138,319	20,934	294	141,388	5,339	119,085	16,922	42
November	177,505	22,367	135,568	19,255	315	138,320	5,816	116,320	16,137	47
December	188,710	22,733	145,080	20,587	310	147,329	5,930	124,413	16,945	41
Total	**2,247,359**	**279,790**	**1,708,256**	**255,155**	**4,158**	**1,756,170**	**74,105**	**1,472,652**	**208,788**	**625**

Note: Total may not equal sum of components due to independent rounding.
r Revised.
Source: Energy Information Administration, Form 759.

TABLE 18
INDEX OF WEEKLY ELECTRIC OUTPUT—TOTAL ELECTRIC UTILITY INDUSTRY (EXCLUDING ALASKA AND HAWAII)
SEASONALLY ADJUSTED—1967 AVERAGE = 100
1972–1982

Week Number	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972
1	176	180	179	199	184	181	162	154	154	154	131
2	179	189	178	192	184	182	174	152	151	160	136
3	205	197	170	189	184	191	171	162	149	149	136
4	193	185	176	186	182	193	175	158	145	148	139
5	190	182	194	201	193	187	169	155	146	153	138
6	183	191	190	198	185	183	170	158	153	150	143
7	192	192	188	196	180	176	163	159	151	156	143
8	182	176	185	194	183	177	158	154	150	153	139
9	193	187	200	196	187	174	162	156	155	150	141
10	196	193	204	191	186	177	164	164	148	147	139
11	194	192	196	194	176	170	167	162	151	147	142
12	192	198	195	189	170	171	170	157	154	152	140
13	195	195	196	193	170	176	164	156	157	150	141
14	195	189	191	194	173	171	165	159	154	152	142
15	201	193	188	193	174	172	163	159	152	155	145
16	193	195	195	191	180	174	164	157	151	149	145
17	192	195	188	188	177	170	166	155	154	151	143
18	187	198	187	186	177	175	167	157	156	152	142
19	187	193	187	196	180	174	165	156	156	155	142
20	189	192	185	188	181	183	165	153	161	152	143
21	192	188	182	181	182	179	159	161	160	153	144
22	187	192	185	181	187	179	154	158	158	154	143
23	191	198	193	191	183	177	162	154	158	162	149
24	187	204	180	183	178	176	164	148	154	161	142
25	182	205	179	184	179	174	169	159	157	157	140
26	179	200	192	177	188	177	164	159	146	154	140
27	179	194	192	173	175	181	153	158	158	161	134
28	190	202	197	182	179	184	171	151	161	161	145
29	182	195	202	184	187	187	165	148	163	154	152
30	190	194	194	189	185	170	166	159	158	158	150
31	187	185	194	193	178	175	171	162	159	155	144
32	189	192	204	198	183	182	160	157	150	161	141
33	186	198	201	173	193	167	162	159	155	156	146
34	190	186	196	184	185	163	158	156	159	149	148
35	184	188	194	185	180	173	170	159	158	167	145
36	196	197	201	192	185	172	162	158	147	162	139
37	177	187	200	188	193	173	167	156	158	155	149
38	196	193	198	181	197	177	168	152	156	151	153
39	182	189	203	186	183	180	166	151	150	158	149
40	184	195	192	191	186	175	168	152	154	159	145
41	192	194	186	190	184	176	171	158	155	163	148
42	184	194	188	192	185	176	169	160	157	158	152
43	186	194	189	193	185	173	176	158	158	157	148
44	185	193	194	191	185	173	176	159	154	158	150
45	186	188	187	190	182	174	177	156	155	161	148
46	184	188	188	191	186	177	179	161	156	154	152
47	191	192	201	177	194	170	178	161	155	149	152
48	179	187	190	194	181	186	176	166	157	148	151
49	174	184	184	188	187	185	186	163	159	152	156
50	179	189	185	181	192	177	182	164	156	155	158
51	189	196	192	189	184	172	177	169	156	157	152
52	186	198	199	174	184	181	187	171	149	145	146
Year	**184**	**192**	**191**	**189**	**183**	**177**	**168**	**157**	**154**	**155**	**145**

Note: Seasonal factors are always based on 52 weeks ending on Saturday. Therefore one week is eliminated in 1972 and 1977, since those years had 53 Saturdays.

The above values are based on EEI Weekly Electric Output Index—(Revised Methodology) dated January, 1958.

TABLE 19
WEEKLY ELECTRIC OUTPUT—TOTAL ELECTRIC UTILITY INDUSTRY (EXCLUDING ALASKA AND HAWAII)
1980–1982—KILOWATT-HOURS IN MILLIONS

Week Ended	1982	Week Ended	1981	% Change 82/81	Week Ended	1980	% Change 81/80
Jan. 2	41,799	Jan. 3	42,727	− 2.2	Jan. 5	42,577	+ 0.4
9	46,017	10	48,796	− 5.7	12	46,196	+ 5.6
16	51,909	17	49,789	+ 4.3	19	43,653	+ 14.1
23	48,998	24	46,787	+ 4.7	26	45,021	+ 3.9
30	47,579	31	45,556	+ 4.4			
Feb. 6	46,399	Feb. 7	48,526	− 4.4	Feb. 2	47,975	− 5.0
13	47,700	14	47,616	+ 0.2	9	47,540	+ 2.1
20	43,544	21	42,136	+ 3.3	16	46,274	+ 2.9
27	43,787	28	42,427	+ 3.2	23	44,076	− 4.4
Mar. 6	43,905	Mar. 7	43,190	+ 1.7	Mar. 1	44,588	− 4.8
13	43,177	14	42,743	+ 1.0	8	44,911	− 3.8
20	41,853	21	43,066	− 2.8	15	43,076	− 0.8
27	41,510	28	41,692	− 0.4	22	42,125	+ 2.2
					29	41,877	− 0.4
Apr. 3	41,234	Apr. 4	39,964	+ 3.2	Apr. 5	40,327	− 0.9
10	42,072	11	40,461	+ 4.0	12	39,519	+ 2.4
17	40,079	18	40,599	− 1.3	19	40,617	0.0
24	40,059	25	40,595	− 1.3	26	39,566	+ 2.6
May 1	39,205	May 2	41,417	− 5.3	May 3	39,475	+ 4.9
8	39,584	9	40,800	− 3.0	10	39,725	+ 2.7
15	40,409	16	41,045	− 1.5	17	40,025	+ 2.5
22	42,088	23	41,237	+ 2.1	24	40,596	+ 1.6
29	42,516	30	41,814	+ 1.7	31	40,863	+ 2.3
June 5	41,509	June 6	44,904	− 7.6	June 7	44,282	+ 1.4
12	43,635	13	47,615	− 8.4	14	42,625	+ 11.7
19	43,725	20	49,190	− 11.1	21	43,621	+ 12.8
26	43,593	27	48,765	− 10.6	28	46,894	+ 4.0
July 3	44,657	July 4	46,037	− 3.0	July 5	45,838	+ 0.4
10	44,971	11	50,407	− 10.8	12	49,165	+ 2.5
17	48,644	18	52,124	− 6.7	19	52,635	− 1.0
24	49,824	25	50,898	− 2.1	26	49,943	+ 1.9
31	49,073						
Aug. 7	49,136	Aug. 1	48,364	+ 1.5	Aug. 2	50,126	− 3.5
14	46,285	8	49,901	− 1.5	9	51,834	− 3.7
21	46,786	15	49,262	− 6.0	16	49,507	− 0.5
28	46,082	22	45,797	+ 2.2	23	47,981	− 4.6
		29	47,014	− 2.0	30	48,138	− 2.3
Sept. 4	45,180	Sept. 5	46,351	− 2.5	Sept. 6	46,844	− 1.1
11	41,699	12	42,980	− 3.0	13	45,549	− 5.6
18	44,427	19	43,617	+ 1.9	20	44,434	− 1.8
25	40,274	26	41,630	− 3.3	27	44,351	− 6.1
Oct. 2	39,797	Oct. 3	42,204	− 5.7	Oct. 4	40,992	+ 3.0
9	41,266	10	41,501	− 0.6	11	40,409	+ 2.7
16	39,572	17	41,446	− 4.5	18	40,743	+ 1.7
23	39,974	24	41,513	− 3.7	25	41,002	+ 1.2
30	40,067	31	41,658	− 3.8			
Nov. 6	40,999	Nov. 7	41,013	0.0	Nov. 1	42,355	− 1.6
13	41,300	14	42,129	− 2.0	8	41,300	− 0.7
20	42,659	21	42,566	+ 0.2	15	42,365	− 0.6
27	40,145	28	41,711	− 3.8	22	44,705	− 4.8
					29	42,727	− 2.4
Dec. 4	41,284	Dec. 5	43,431	− 4.9	Dec. 6	43,898	− 1.1
11	43,174	12	45,293	− 4.7	13	44,824	+ 1.0
18	45,709	19	47,108	− 3.0	20	46,555	+ 1.2
25	41,732	26	44,065	− 5.3	27	44,711	− 1.4

Note: "Weekly Electric Output" is the total of that reported by the individual utilities which consists of the net electric energy generated by each respondent utility plus energy received from others less energy delivered for resale.

These figures are based on the reports of investor-owned utilities, large municipal systems, and state and Federal agencies comprising 93 percent of the total. They are then expanded to an estimated full coverage of the contiguous United States. As these data are for 52 weeks rather than for the calendar year and include net imports and purchases from industrial plants they do not add to totals for the electric utility industry shown in other tables.

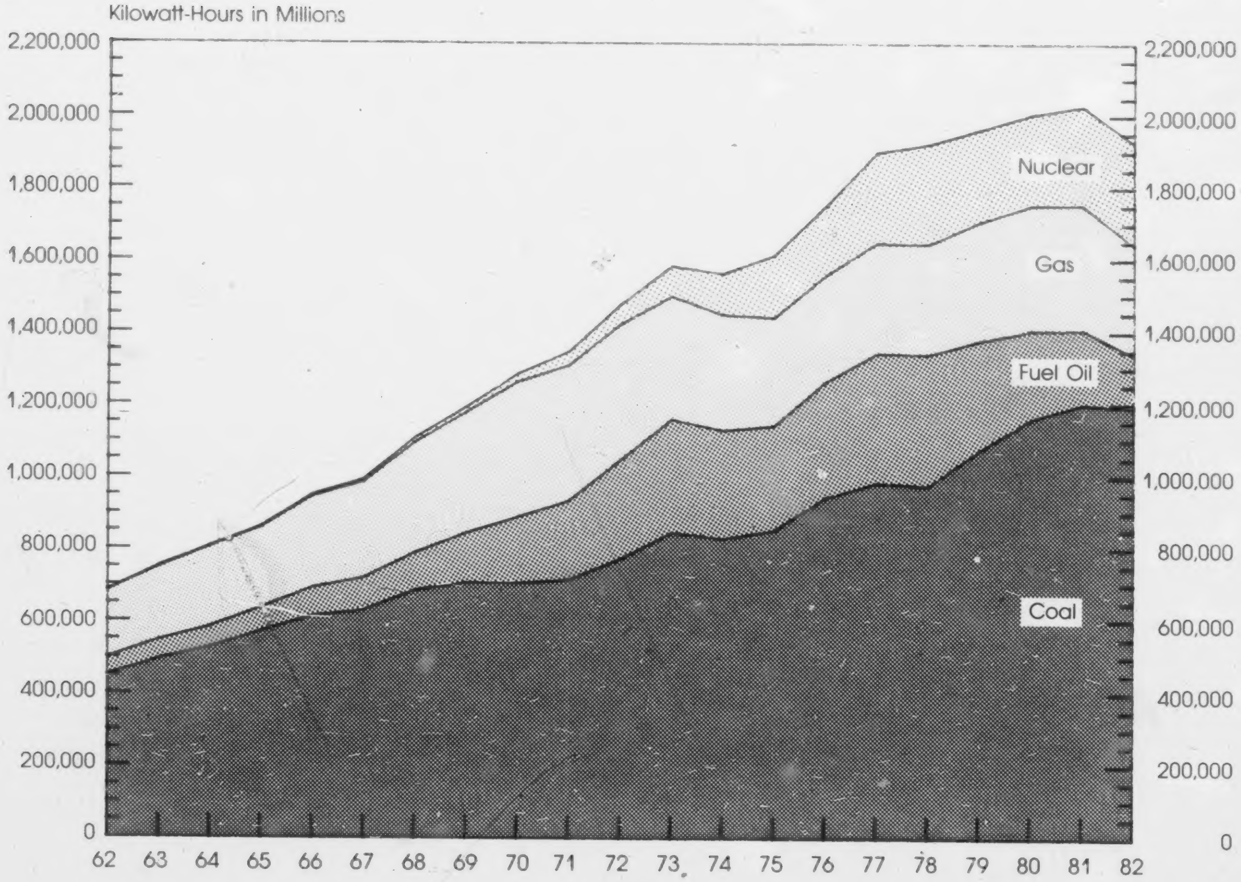
FUEL

SECTION IV

Chart IV-A

ELECTRIC POWER GENERATION

TOTAL ELECTRIC UTILITY INDUSTRY
BY FUEL SOURCE*



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*Excludes geothermal, wood and waste.
Based on Table 21, page 30.
Source: Energy Information Administration, Form 759.

TABLE 21
GENERATION BY FUEL—TOTAL ELECTRIC UTILITY INDUSTRY*
BY YEAR AND KIND OF FUEL
KILOWATT-HOURS IN MILLIONS

Year	Total Thermal Generation**	Coal	Percent of Total	Fuel Oil	Percent of Total	Gas	Percent of Total	Nuclear	Percent of Total
1982	**1,926,835**	**1,192,379†**	**61.9**	**146,423**	**7.6**	**305,260**	**15.8**	**282,773**	**14.7**
1981r	2,028,075	1,203,554†	59.3	206,070	10.2	345,777	17.1	272,674	13.4
1980	2,004,870	1,161,969	58.0	245,547	12.2	346,233	17.3	251,121	12.5
1979	1,963,184	1,075,595	54.8	302,948	15.4	329,486	16.8	255,155	13.0
1978	1,922,566	976,618	50.8	364,153	18.9	305,392	15.9	276,403	14.4
1977	1,899,657	985,465	51.9	357,866	18.8	305,444	16.1	250,882	13.2
1976	1,750,058	944,562	54.0	319,779	18.3	294,610	16.8	191,107	10.9
1975	1,614,117	852,972	52.8	288,873	17.9	299,766	18.6	172,506	10.7
1974	1,562,806	829,842	53.1	299,306	19.1	319,931	20.5	113,727	7.3
1973	1,582,292	845,704	53.4	312,805	19.8	340,449	21.5	83,334	5.3
1972	1,475,228	772,871	52.4	272,530	18.5	375,735	25.5	54,092	3.6
1971	1,345,416	714,676	53.1	218,608	16.3	374,026	27.8	38,106	2.8
1970	1,283,271	706,102	55.0	182,488	14.2	372,884	29.1	21,797	1.7
1969	1,191,055	706,001	59.3	137,847	11.6	333,279	28.0	13,928	1.1
1968	1,106,142	684,905	61.9	104,276	9.4	304,433	27.5	12,528	1.2
1967	992,215	630,483	63.5	89,271	9.0	264,806	26.7	7,655	0.8
1966	949,072	613,475	64.6	78,926	8.3	251,151	26.5	5,520	0.6
1965	860,943	570,926	66.3	64,801	7.5	221,559	25.8	3,657	0.4
1964	806,565	526,230	65.2	56,954	7.1	220,038	27.3	3,343	0.4
1963	750,742	493,927	65.8	52,001	6.9	201,602	26.9	3,212	0.4
1962	683,803	450,249	65.8	46,983	6.9	184,301	27.0	2,270	0.3

Note: Total may not equal sum of components due to independent rounding.

r Revised.

*Alaska and Hawaii included since 1963.

**Excludes generation by geothermal, wood and waste.

†Includes petroleum coke.

Source: Energy Information Administration, Form 759.

TABLE 22
GENERATION BY FUEL—TOTAL ELECTRIC UTILITY INDUSTRY
BY STATE AND KIND OF FUEL
1981r and 1982—KILOWATT-HOURS IN MILLIONS

Division/State	Total Thermal*		Coal**		Fuel Oil		Gas		Nuclear Fuel	
	1982	1981r	1982	1981r	1982	1981r	1982	1981r	1982	1981r
Total United States	**1,926,835**	**2,028,075**	**1,192,379**	**1,203,554**	**146,423**	**206,070**	**305,260**	**345,777**	**282,773**	**272,674**
Maine	6,354	7,371	—	—	1,830	2,160	—	—	4,524	5,212
New Hampshire	3,689	4,356	2,289	2,197	1,401	2,150	—	9	—	—
Vermont	4,232	3,609	44	21	8	9	6	11	4,174	3,569
Massachusetts	33,797	32,563	8,867	2,250	19,353	25,422	1,404	561	4,173	4,331
Rhode Island	438	819	—	—	378	604	61	215	—	—
Connecticut	24,053	23,525	—	—	10,428	10,852	—	—	13,625	12,673
New England	**72,564**	**72,244**	**11,199**	**4,468**	**33,397**	**41,196**	**1,471**	**796**	**26,497**	**25,785**
New York	76,597	80,173	15,254	14,402	32,932	36,760	13,974	11,566	14,438	17,444
New Jersey	31,690	31,964	7,077	6,981	4,828	6,165	5,746	7,143	14,039	11,675
Pennsylvania	117,146	115,934	94,179	92,056	6,378	9,378	117	224	16,472	14,276
Middle Atlantic	**225,432**	**228,071**	**116,510**	**113,440**	**44,137**	**52,303**	**19,836**	**18,934**	**44,949**	**43,395**
Ohio	105,147	111,749	101,454	106,762	385	444	82	136	3,226	4,407
Indiana	63,398	67,258	62,898	66,424	258	366	242	468	—	—
Illinois	93,553	98,754	61,201	62,985	3,988	5,336	738	950	27,625	29,483
Michigan	67,609	74,471	50,488	53,183	1,285	3,082	833	1,140	15,003	17,066
Wisconsin	35,157	35,118	24,571	24,821	108	165	210	414	10,268	9,719
East North Central	**364,864**	**387,350**	**300,612**	**314,174**	**6,025**	**9,393**	**2,106**	**3,108**	**56,122**	**60,675**
Minnesota	27,681	30,709	17,221	20,026	47	83	216	413	10,197	10,187
Iowa	20,928	21,620	18,456	19,136	56	63	147	217	2,269	2,204
Missouri	47,407	48,132	46,910	47,401	169	146	327	585	—	—
North Dakota	15,761	13,811	15,729	13,773	32	37	—	—	—	—
South Dakota	2,526	2,676	2,513	2,662	12	13	—	1	—	—
Nebraska	17,057	14,867	8,120	8,482	65	47	120	351	8,753	5,988
Kansas	23,214	24,536	17,778	17,587	285	328	5,150	6,621	—	—
West North Central	**154,573**	**156,350**	**126,727**	**129,066**	**666**	**717**	**5,961**	**8,188**	**21,219**	**18,379**
Delaware	7,016	8,320	4,354	4,636	2,136	3,129	526	555	—	—
Maryland	28,414	28,718	14,242	12,782	3,757	4,050	70	363	10,345	11,523
District of Columbia	87	358	—	—	87	358	—	—	—	—
Virginia	35,687	37,143	16,174	15,380	1,849	3,795	243	149	17,420	17,818
West Virginia	67,857	73,140	67,514	72,633	325	482	17	26	—	—
North Carolina	69,091	69,076	59,804	62,566	159	212	1	51	9,126	6,246
South Carolina	34,398	40,042	20,948	21,083	257	1,215	37	417	13,156	17,327
Georgia	56,387	59,649	49,464	51,790	183	419	134	205	6,606	7,235
Florida	91,786	98,820	21,694	21,096	33,857	47,446	16,917	15,829	19,319	14,448
South Atlantic	**390,722**	**415,266**	**254,192**	**261,967**	**42,610**	**61,107**	**17,947**	**17,595**	**75,973**	**74,597**
Kentucky	54,768	57,497	54,454	57,071	169	185	146	240	—	—
Tennessee	49,736	53,042	39,479	48,149	153	164	—	24	10,104	4,704
Alabama	63,973	68,760	36,170	44,889	30	46	72	182	27,701	23,643
Mississippi	16,971	14,798	9,259	6,607	205	1,766	7,507	6,425	—	—
East South Central	**185,448**	**194,097**	**139,361**	**156,717**	**557**	**2,161**	**7,724**	**6,872**	**37,805**	**28,347**
Arkansas	21,373	24,072	10,856	9,476	89	462	2,945	5,060	7,482	9,075
Louisiana	41,535	44,110	4,998	1,529	946	2,634	35,590	39,947	—	—
Oklahoma	42,837	42,954	17,904	13,661	28	24	24,905	29,269	—	—
Texas	205,305	206,036	78,752	70,904	1,090	713	125,463	134,419	—	—
West South Central	**311,049**	**317,172**	**112,511**	**95,570**	**2,153**	**3,833**	**188,902**	**208,695**	**7,482**	**9,075**
Montana	3,896	5,236	3,853	5,047	10	13	33	176	—	—
Idaho	1	1	—	—	—	—	1	1	—	—
Wyoming	26,685	25,582	26,617	25,500	57	72	11	9	—	—
Colorado	23,927	24,006	22,879	22,172	74	87	405	998	569	749
New Mexico	23,679	22,929	19,431	17,885	146	84	4,103	4,959	—	—
Arizona	31,720	33,787	28,670	28,122	214	268	2,837	5,396	—	—
Utah	10,867	11,138	10,635	10,869	29	40	203	230	—	—
Nevada	14,165	13,995	12,619	9,549	130	141	1,415	4,305	—	—
Mountain	**134,940**	**136,674**	**124,703**	**119,144**	**660**	**705**	**9,007**	**16,076**	**569**	**749**
Washington	9,115	9,077	5,464	6,985	12	14	9	37	3,631	2,042
Oregon	5,537	8,131	739	1,679	4	10	2	18	4,792	6,424
California	63,238	94,513	—	—	9,470	27,751	50,034	63,556	3,735	3,206
Pacific	**77,891**	**111,721**	**6,203**	**8,663**	**9,485**	**27,774**	**50,045**	**63,611**	**12,158**	**11,672**
Alaska	3,036	2,598	360	345	414	351	2,261	1,902	—	—
Hawaii	6,317	6,531	—	—	6,317	6,531	—	—	—	—
Alaska & Hawaii	**9,353**	**9,129**	**360**	**345**	**6,731**	**6,881**	**2,261**	**1,902**	—	—

Note: Total may not equal sum of components due to independent rounding.
*Excludes generation by geothermal, wood and waste.
**Includes petroleum coke. r Revised.
Source: Energy Information Administration, Form 759.

TABLE 23
CONSUMPTION OF FOSSIL FUELS FOR ELECTRIC GENERATION
TOTAL ELECTRIC UTILITY INDUSTRY[*]
BY YEAR AND KIND OF FUEL

Year	Coal (Thousand Short Tons)	Fuel Oil (Thousand 42-Gallon Barrels)	Gas (Million Cubic Feet)	Total Fossil Fuel in Coal Equivalents[**][†] (Thousand Short Tons)	Net Generation by Fuels[**] (Kwhr in Millions)	Heat Rate[†] (Btu per Kwhr)	Lbs. of Coal per Kwhr[†]
1982	**593,666[***]**	**249,771**	**3,225,518**	**858,869[‡]**	**1,643,687**	**10,517**	**0.996**
1981	596,936	351,111	3,640,154	922,133[‡]	1,755,401[r]	10,506	0.992
1980	569,453	420,214	3,681,595	916,952[‡]	1,753,749	10,489	0.980
1979	527,317	523,256	3,490,517	837,371	1,708,029	10,470	0.981
1978	481,624	635,829	3,188,370	811,814	1,646,163	10,495	0.986
1977	477,215	623,656	3,190,571	798,425	1,648,775	10,449	0.969
1976	448,431	555,583	3,080,627	740,112	1,558,951	10,369	0.950
1975	406,032	506,081	3,157,591	686,236	1,441,611	10,383	0.952
1974	392,344	536,140	3,429,072	685,115	1,449,079	10,481	0.946
1973	388,190	559,842	3,640,756	688,043	1,498,958	10,429	0.918
1972	352,391	493,663	3,976,762	647,968	1,421,136	10,479	0.912
1971	327,878	396,438	3,975,972	599,766	1,307,310	10,536	0.918
1970	320,818	335,504	3,931,996	573,152	1,261,474	10,508	0.909
1969	310,641	251,027	3,487,642	517,937	1,177,127	10,457	0.880
1968	297,779	188,642	3,147,909	475,475	1,093,614	10,371	0.870
1967	274,185	161,278	2,746,352	428,165	984,560	10,396	0.870
1966	266,477	140,949	2,609,949	409,854	943,552	10,399	0.869
1965	244,788	115,203	2,321,101	367,567	857,286	10,384	0.858
1964	225,425	101,141	2,322,896	344,083	803,222	10,407	0.857
1963	211,332	93,314	2,144,473	319,840	747,530	10,438	0.856
1962	193,238	85,768	1,965,974	292,501	681,533	10,493	0.858

[*] Alaska and Hawaii included since 1963.

[**] Excludes geothermal, wood, waste, and nuclear fuels.

[***] Beginning in 1982, petroleum coke excluded from Coal.

[†] EEI estimate.

[‡] Beginning in 1980, Coal Equivalents are calculated on the basis of Btu instead of generation data.

[r] Revised.

Source: Energy Information Administration, Form 759.

TABLE 24
CONSUMPTION OF FOSSIL FUELS FOR ELECTRIC GENERATION
TOTAL ELECTRIC UTILITY INDUSTRY
BY STATE AND KIND OF FUEL
YEAR 1982

Division/State	Coal* (Thousand Short Tons)	Fuel Oil (Thousand 42-Gallon Barrels)	Gas (Million Cubic Feet)	Total Fossil Fuel in Coal Equivalents**† (Thousand Short Tons)	Net Generation by Fuels** (Kwhr in Millions)	Heat Rate† (Btu per Kwhr)	Lbs. of Coal per Kwhr†
Total United States	**593,666**	**249,771**	**3,225,518**	**858,869**	**1,643,687**	**10,517**	**0.996**
Maine	—	3,198	—	774	1,830	10,979	—
New Hampshire	959	2,612	—	1,567	3,689	10,761	0.838
Vermont	31	23	107	48	58	18,759	1.409
Massachusetts	3,182	31,309	15,288	11,361	29,624	9,976	0.718
Rhode Island	—	804	794	227	438	13,261	—
Connecticut	—	17,445	—	4,242	10,428	10,457	—
New England	**4,172**	**55,391**	**16,190**	**18,223**	**46,067**	**10,236**	**0.745**
New York	6,662	56,186	152,577	27,305	62,159	10,735	0.873
New Jersey	2,744	8,794	65,504	7,386	17,651	10,050	0.775
Pennsylvania	39,972	11,391	1,568	42,913	100,513	10,394	0.849
Middle Atlantic	**49,377**	**76,371**	**219,648**	**77,604**	**180,322**	**10,479**	**0.848**
Ohio	45,759	876	1,230	46,044	101,921	10,358	0.902
Indiana	30,566	525	2,705	30,832	63,398	10,445	0.972
Illinois	31,519	7,742	10,387	34,401	65,928	10,780	1.030
Michigan	21,806	2,524	12,727	22,767	52,606	10,332	0.864
Wisconsin	13,470	257	4,318	13,759	24,883	11,140	1.096
East North Central	**143,121**	**11,924**	**31,367**	**147,803**	**308,736**	**10,522**	**0.952**
Minnesota	10,818	129	3,274	11,047	17,484	11,093	1.256
Iowa	11,435	158	2,501	11,625	18,658	11,394	1.239
Missouri	22,863	383	4,441	23,182	47,407	10,460	0.975
North Dakota	14,100	88	17	14,140	15,761	12,115	1.793
South Dakota	2,433	53	30	2,460	2,526	12,227	1.936
Nebraska	5,048	132	1,553	5,174	8,304	10,757	1.243
Kansas	11,512	559	61,063	15,077	23,214	11,455	1.295
West North Central	**78,208**	**1,503**	**72,880**	**82,705**	**133,354**	**11,079**	**1.234**
Delaware, Maryland and D.C.	7,486	10,596	6,138	10,301	24,964	10,323	0.805
Virginia	6,596	3,324	3,020	7,548	18,266	10,473	0.816
West Virginia	27,796	522	131	27,929	67,857	9,704	0.823
North Carolina	23,540	331	76	23,621	59,964	9,666	0.787
South Carolina	8,581	477	517	8,721	21,241	10,107	0.819
Georgia	21,195	349	1,509	21,345	49,781	10,242	0.857
Florida	9,545	54,809	182,471	31,843	72,467	10,437	0.880
South Atlantic	**104,739**	**70,408**	**193,863**	**131,308**	**314,541**	**10,072**	**0.824**
Kentucky	24,455	295	1,522	24,598	54,768	10,187	0.898
Tennessee	16,532	287	—	16,604	39,632	9,831	0.838
Alabama	15,584	64	1,339	15,662	36,272	10,255	0.862
Mississippi	4,055	426	83,196	7,657	16,971	10,922	0.876
East South Central	**60,625**	**1,072**	**86,057**	**64,521**	**147,643**	**10,172**	**0.870**
Arkansas	6,902	146	33,443	9,019	13,890	10,775	1.272
Louisiana	3,398	1,670	372,632	26,966	41,535	10,959	1.360
Oklahoma	11,096	58	246,923	26,176	42,837	10,465	1.239
Texas	56,540	2,204	1,286,297	145,787	205,305	10,623	1.436
West South Central	**77,936**	**4,079**	**1,939,295**	**207,948**	**303,566**	**10,649**	**1.385**
Montana	2,596	31	337	2,620	3,896	11,620	1.348
Idaho	—	—	5	1	1	12,368	—
Wyoming	17,529	115	133	17,574	26,685	11,478	1.317
Colorado	12,638	192	6,045	12,992	23,358	10,989	1.105
New Mexico	12,173	327	44,726	14,759	23,679	10,848	1.253
Arizona	14,484	400	31,286	16,159	31,720	10,707	1.010
Utah	4,947	59	3,023	5,097	10,867	10,645	0.930
Nevada	6,403	241	15,688	7,226	14,165	11,437	1.015
Mountain	**70,770**	**1,365**	**101,244**	**76,428**	**134,371**	**11,051**	**1.135**
Washington	3,844	23	121	3,861	5,484	10,695	1.407
Oregon	537	14	32	544	745	11,959	1.453
California	—	16,140	533,832	40,893	59,503	10,871	—
Pacific	**4,381**	**16,178**	**533,986**	**45,298**	**65,733**	**10,871**	**1.413**
Alaska	336	884	30,988	2,688	3,036	15,135	1.867
Hawaii	—	10,595	—	4,342	6,317	10,529	—
Alaska & Hawaii	**336**	**11,479**	**30,988**	**7,030**	**9,353**	**10,960**	**1.867**

*Excludes petroleum coke.

**Excludes geothermal, wood, waste, nuclear fuels, and petroleum coke.

†EEI estimate.

Source: Energy Information Administration, Form 759.

TABLE 25
ANALYSIS OF FUEL FOR ELECTRIC GENERATION
TOTAL ELECTRIC UTILITY INDUSTRY
FUEL BURNED UNDER BOILERS AND BY INTERNAL COMBUSTION ENGINES 1979–1982 BY GEOGRAPHIC DIVISION

		Composite Averages			Coal (a)			Oil (b)			Gas (c)		
Division	Year	Cost per Million Btu Consumed	Cost of Fuel per Net Kwhr	Btu per Net Kwhr	Cost per Million Btu Consumed	Cost per Ton	Btu per Pound	Cost per Million Btu Consumed	Cost per Bbl	Btu per Gallon	Cost per Million Btu Consumed	Cost per M Cu Ft	Btu per Cu Ft
United States	1982	234.0¢	2.46¢	10,517	169.4¢	$35.98	10,621	507.1¢	$31.52	148,000	339.9¢	351.69¢	1,034
	1981	230.2	2.42	10,506	158.1	33.71	10,659	535.8	33.11	147,128	280.8	290.50	1,035
	1980	197.0	2.07	10,489	139.9	30.04	10,732	418.2	25.91	147,484	220.4	228.20	1,035
	1979	155.4	1.62	10,470	126.7	27.13	10,702	293.3	18.09	146,846	173.9	179.90	1,035
New England	1982	411.3	4.21	10,236	247.2	63.56	12,854	463.4	28.94	148,703	404.9	425.05	1,050
	1981	480.9	4.96	10,323	214.0	54.10	12,638	511.6	31.89	148,392	377.2	379.40	1,006
	1980	376.8	3.89	10,317	168.4	43.62	12,953	398.5	24.82	148,291	297.5	300.10	1,009
	1979	267.0	2.76	10,331	158.7	40.70	12,823	274.9	17.07	147,862	239.4	241.90	1,010
Middle Atlantic	1982	286.7	3.00	10,479	174.6	42.88	12,283	514.9	31.97	147,833	429.3	441.38	1,028
	1981	297.3	3.18	10,704	169.9	40.92	12,043	528.7	32.67	147,103	380.2	392.20	1,032
	1980	243.2	2.59	10,639	142.0	34.39	12,106	428.5	26.45	146,964	298.2	308.00	1,033
	1979	195.9	2.03	10,598	130.3	31.27	12,003	301.7	18.51	146,121	250.5	258.70	1,033
East North Central	1982	193.6	2.03	10,522	181.1	40.19	11,093	691.0	43.01	148,211	407.7	351.90	863
	1981	185.5	1.94	10,463	168.7	37.09	10,995	633.8	39.07	146,786	351.5	303.07	862
	1980	168.9	1.77	10,475	151.4	33.28	10,990	474.3	28.99	145,533	288.7	261.60	906
	1979	149.5	1.57	10,527	135.0	29.25	10,836	327.2	19.86	144,546	238.6	211.40	886
West North Central	1982	141.0	1.56	11,079	134.0	24.20	9,029	509.5	27.46	142,276	262.9	259.18	985
	1981	134.4	1.48	11,000	126.9	23.67	9,326	412.3	24.85	143,511	228.1	225.35	988
	1980	125.0	1.37	10,996	116.8	22.13	9,472	349.8	22.14	147,882	185.8	180.60	972
	1979	118.9	1.31	11,042	110.9	21.16	9,539	250.1	15.21	144,837	146.2	142.20	972
South Atlantic	1982	230.0	2.31	10,072	193.1	46.80	12,119	446.7	27.94	148,902	221.7	224.22	1,011
	1981	234.4	2.38	10,156	179.5	43.32	12,065	475.5	29.54	147,902	190.0	197.95	1,042
	1980	184.6	2.05	10,127	157.1	37.98	12,089	378.4	23.59	148,512	162.9	166.30	1,021
	1979	179.1	1.81	10,108	146.1	34.91	11,947	281.2	17.48	147,996	137.0	139.30	1,017
East South Central	1982	195.7	1.99	10,172	188.1	44.22	11,750	530.9	32.91	147,610	295.4	302.62	1,024
	1981	181.5	1.84	10,153	174.5	40.53	11,616	393.2	24.04	145,571	257.7	262.68	1,019
	1980	162.5	1.66	10,205	155.9	36.33	11,650	305.1	19.23	150,074	212.2	216.10	1,018
	1979	143.8	1.48	10,303	138.3	31.74	11,477	222.0	13.92	149,240	178.2	181.20	1,017
West South Central	1982	248.8	2.65	10,649	156.2	24.19	7,739	478.9	28.30	140,731	297.2	308.40	1,037
	1981	214.6	2.28	10,610	140.0	21.40	7,641	489.1	30.30	147,528	242.5	250.96	1,035
	1980	173.1	1.84	10,609	118.9	17.97	7,560	370.9	23.13	148,485	184.8	192.30	1,041
	1979	147.8	1.57	10,595	98.4	14.36	7,297	252.2	15.64	147,630	153.3	159.80	1,043
Mountain	1982	123.7	1.36	11,051	104.4	20.49	9,808	512.3	30.87	143,486	358.2	368.61	1,028
	1981	121.0	1.33	10,964	93.0	18.16	9,767	491.8	29.53	142,987	291.3	299.95	1,030
	1980	111.4	1.22	10,972	81.4	15.56	9,562	417.1	27.27	146,696	246.5	253.90	1,030
	1979	101.0	1.11	10,978	68.9	13.40	9,722	279.8	17.10	145,472	208.3	214.90	1,031
Pacific	1982	506.4	5.50	10,871	121.5	19.65	8,038	743.3	44.61	142,911	501.1	526.18	1,050
	1981	452.7	4.81	10,626	116.6	18.79	8,055	667.2	40.33	143,913	394.6	415.48	1,053
	1980	393.9	4.12	10,452	90.5	14.68	8,113	497.9	30.49	145,788	350.1	368.80	1,053
	1979	275.6	2.78	10,077	63.6	10.50	8,256	325.4	19.92	145,744	244.3	257.70	1,055
Alaska	1982	116.6	1.76	15,135	132.5	20.30	7,658	549.5	27.64	135,550	79.2	79.20	1,000
	1981	137.9	2.11	15,313	190.0	30.63	8,035	879.1	51.28	138,883	99.5	99.50	1,000
	1980	105.1	1.66	15,801	190.6	30.63	8,035	399.3	25.59	133,791	83.6	83.60	1,000
	1979	132.1	1.97	14,893	131.0	22.77	8,692	401.7	22.78	135,009	—	—	—
Hawaii	1982	661.9	6.97	10,529	—	—	—	661.9	41.53	149,453	—	—	—
	1981	659.0	6.98	10,598	—	—	—	659.0	40.96	147,992	—	—	—
	1980	378.2	4.05	10,718	—	—	—	378.2	23.72	149,321	—	—	—
	1979	257.2	2.72	10,587	—	—	—	257.2	16.23	150,263	—	—	—

(a) Coal includes bituminous and anthracite coal and relatively small amounts of coke, lignite, and wood

(b) Oil includes fuel oil, crude oil, and small amounts of tar and gasoline.

(c) Gas includes natural and manufactured gas and waste gas

TABLE 26
ANALYSIS OF FUEL FOR ELECTRIC GENERATION
TOTAL ELECTRIC UTILITY INDUSTRY
FUEL BURNED UNDER BOILERS AND BY INTERNAL COMBUSTION ENGINES
1982 BY STATE

	Composite Averages			Coal (a)			Oil (b)			Gas (c)		
Division/State	Cost per Million Btu Consumed	Cost of Fuel per Net Kwhr	Btu per Net Kwhr	Cost per Million Btu Consumed	Cost per Ton	Btu per Pound	Cost per Million Btu Consumed	Cost per Bbl	Btu per Gallon	Cost per Million Btu Consumed	Cost per M Cu Ft	Btu per Cu Ft
Total United States	**234.0¢**	**2.46¢**	**10,517**	**169.4¢**	**$35.98**	**10,621**	**507.1¢**	**$31.52**	**148,000**	**339.9¢**	**351.69¢**	**1,034**
Maine	495.2	5.44	10,979	—	—	—	495.2	30.84	148,274	—	—	—
New Hampshire	285.4	3.07	10,761	193.5	51.86	13,401	421.6	26.34	148,752	—	—	—
Vermont	267.8	5.02	18,759	215.4	29.14	6,764	686.5	40.55	140,628	568.2	568.22	1,000
Massachusetts	398.7	3.98	9,976	263.5	68.15	12,931	455.2	28.42	148,648	404.9	425.61	1,051
Rhode Island	452.3	6.00	13,261	—	—	—	463.6	29.04	149,142	383.2	394.60	1,030
Connecticut	478.8	5.01	10,457	—	—	—	478.8	29.93	148,861	—	—	—
New England	**411.3**	**4.21**	**10,236**	**247.2**	**63.56**	**12,854**	**463.4**	**28.94**	**148,703**	**404.9**	**425.05**	**1,050**
New York	398.8	4.28	10,735	191.6	47.03	12,273	484.5	30.20	148,389	424.4	435.46	1,026
New Jersey	416.4	4.19	10,050	226.9	59.46	13,105	538.3	33.05	146,175	440.8	442.72	1,033
Pennsylvania	192.2	2.00	10,394	167.8	41.05	12,229	557.2	34.41	147,050	439.4	442.77	1,008
Middle Atlantic	**286.7**	**3.00**	**10,479**	**174.6**	**42.88**	**12,283**	**514.9**	**31.97**	**147,833**	**429.3**	**441.38**	**1,028**
Ohio	174.3	1.81	10,358	172.9	40.03	11,574	633.8	38.15	143,302	417.0	447.17	1,072
Indiana	160.8	1.68	10,445	158.4	34.32	10,830	694.9	40.60	139,103	355.6	355.80	1,000
Illinois	242.8	2.62	10,780	206.9	42.85	10,355	726.0	45.97	150,762	467.6	480.08	1,027
Michigan	207.0	2.13	10,332	192.9	46.99	12,178	591.7	35.79	144,015	394.4	252.24	639
Wisconsin	183.5	2.04	11,140	177.6	35.67	10,039	697.8	38.90	132,750	349.2	353.16	1,011
East North Central	**193.6**	**2.03**	**10,522**	**181.1**	**40.19**	**11,093**	**691.0**	**43.01**	**148,211**	**407.7**	**351.90**	**863**
Minnesota	134.9	1.49	11,093	132.0	23.22	8,793	364.5	21.65	141,426	289.5	288.90	997
Iowa	161.5	1.84	11,394	158.4	28.94	9,131	553.9	32.35	139,090	348.8	355.54	1,019
Missouri	146.8	1.53	10,460	144.0	30.59	10,617	526.8	30.77	139,078	359.9	367.76	1,021
North Dakota	71.9	0.87	12,115	70.5	9.44	6,697	589.0	34.27	138,551	328.3	335.29	1,021
South Dakota	122.1	1.49	12,227	118.8	14.93	6,282	575.8	33.11	136,900	342.7	330.00	962
Nebraska	125.4	1.34	10,757	119.2	21.32	8,941	646.8	37.62	138,489	309.1	294.07	951
Kansas	158.4	1.81	11,455	136.1	24.19	8,883	349.9	21.54	146,588	249.6	245.13	981
West North Central	**141.0**	**1.56**	**11,079**	**134.0**	**24.20**	**9,029**	**509.5**	**27.46**	**142,276**	**262.9**	**259.18**	**985**
Delaware, Maryland and D.C.	266.7	2.75	10,323	193.6	48.37	12,492	505.4	30.52	143,800	408.6	421.76	1,032
Virginia	236.6	2.47	10,473	204.7	50.97	12,448	476.1	29.45	147,265	403.5	420.00	1,040
West Virginia	178.1	1.72	9,704	178.0	42.48	11,932	726.8	42.50	139,221	—	—	—
North Carolina	192.9	1.86	9,666	192.4	47.29	12,284	644.3	37.13	137,219	387.6	400.85	1,033
South Carolina	197.4	1.99	10,107	194.2	48.10	12,379	458.2	28.17	146,386	394.2	405.22	1,027
Georgia	192.1	1.96	10,242	190.7	45.42	11,906	488.0	29.11	142,031	383.0	380.88	994
Florida	318.4	3.32	10,437	229.2	54.45	11,877	433.8	27.33	150,030	209.9	212.07	1,010
South Atlantic	**230.0**	**2.31**	**10,072**	**193.1**	**46.80**	**12,119**	**446.7**	**27.94**	**148,902**	**221.7**	**224.22**	**1,011**
Kentucky	161.3	1.64	10,187	161.1	37.14	11,524	645.5	37.81	139,493	307.7	315.41	1,024
Tennessee	185.7	1.82	9,831	185.4	43.52	11,732	389.8	22.91	139,957	381.2	394.74	1,037
Alabama	218.1	2.23	10,255	217.7	52.25	12,001	394.6	22.85	137,920	300.5	337.69	1,123
Mississippi	274.1	2.99	10,922	234.5	57.10	12,175	565.7	35.69	150,201	295.3	301.98	1,022
East South Central	**195.7**	**1.99**	**10,172**	**188.1**	**44.22**	**11,750**	**530.9**	**32.91**	**147,610**	**295.4**	**302.62**	**1,024**
Arkansas	222.8	2.40	10,775	184.7	30.92	8,368	533.9	33.41	149,002	296.2	306.02	1,032
Louisiana	307.9	3.37	10,959	225.4	38.33	8,500	576.7	36.30	149,884	307.0	321.58	1,047
Oklahoma	184.2	1.92	10,465	157.4	26.97	8,567	346.3	20.22	139,021	203.5	212.81	1,045
Texas	251.4	2.67	10,623	151.4	22.75	7,513	384.2	21.39	132,591	311.7	322.17	1,033
West South Central	**248.8**	**2.65**	**10,649**	**156.2**	**24.19**	**7,739**	**478.9**	**28.30**	**140,731**	**297.2**	**308.40**	**1,037**
Montana	68.2	0.79	11,620	66.5	17.36	13,043	532.7	29.53	132,007	234.3	313.45	1,337
Idaho	498.1	6.16	12,368	—	—	—	366.7	21.07	136,835	545.0	586.00	1,075
Wyoming	85.7	0.98	11,478	84.1	14.63	8,693	717.0	41.47	137,720	514.8	436.09	847
Colorado	127.4	1.40	10,989	119.4	23.21	9,716	686.0	38.90	135,022	363.8	348.67	958
New Mexico	125.4	1.36	10,848	86.4	15.90	9,199	418.5	24.92	141,803	332.8	339.81	1,020
Arizona	133.8	1.43	10,707	103.6	21.77	10,509	461.8	28.67	147,848	388.9	407.21	1,046
Utah	158.0	1.68	10,645	154.5	32.87	10,636	630.9	37.15	140,191	239.1	225.06	941
Nevada	153.2	1.75	11,437	122.0	27.05	11,079	440.7	27.23	147,096	407.4	435.08	1,067
Mountain	**123.7**	**1.36**	**11,051**	**104.4**	**20.49**	**9,808**	**512.3**	**30.87**	**143,486**	**358.2**	**368.61**	**1,028**
Washington	113.6	1.21	10,695	108.9	17.46	8,017	788.5	47.70	144,050	1,328.0	1,390.90	1,047
Oregon	204.9	2.45	11,959	192.1	31.33	8,157	585.0	34.33	137,000	2,288.6	2,382.35	1,041
California	536.5	5.83	10,871	—	—	—	743.2	44.61	142,907	501.0	526.47	1,050
Pacific	**506.4**	**5.50**	**10,871**	**121.5**	**19.65**	**8,038**	**743.3**	**44.61**	**142,911**	**501.1**	**526.18**	**1,050**
Alaska	116.6	1.76	15,135	132.5	20.30	7,658	549.5	27.64	135,550	79.2	79.20	1,000
Hawaii	661.9	6.97	10,529	—	—	—	661.9	41.53	149,453	—	—	—
Alaska & Hawaii	**591.3**	**6.48**	**10,960**	**132.5**	**20.30**	**7,658**	**661.1**	**41.47**	**149,342**	**79.2**	**79.20**	**1,000**

See page 34 for footnotes

TABLE 27
AVERAGE COST OF FOSSIL FUELS DELIVERED TO STEAM-ELECTRIC UTILITY PLANTS*
BY YEARS

(CENTS PER MILLION BTU)

Year	Coal	Residual Oil**	Natural Gas†	All Fossil Fuels**
1982	164.7	475.5	340.6	222.5
1981r	153.2	529.4	282.5	222.5
1980r	135.1	427.9	221.4	190.4
1979	122.4	299.7	175.4	162.1
1978	111.6	212.3	143.8	139.3
1977	94.7	220.4	130.0	127.7

*Excluding Alaska and Hawaii.

**Residual fuel oil prices include Fuel Oil No. 4, No. 5, No. 6, and topped crude fuel oil prices. The weighted average for all fossil fuels includes both residual fuel oil prices and light oil (Fuel Oil No. 2, kerosene, and jet fuel) prices.

†Includes small quantities of coke oven gas, refinery gas and blast furnace gas.

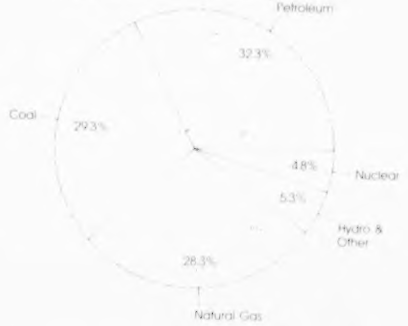
r Revised.

Source: Energy Information Administration, Monthly Energy Review.

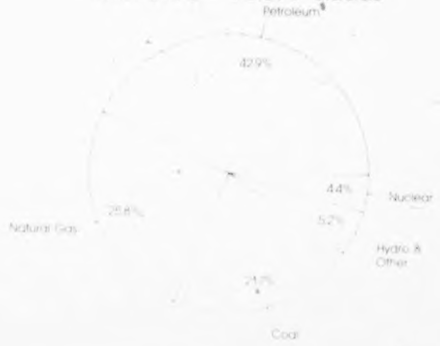
ENERGY
SECTION V

Chart V-A
ENERGY PRODUCTION AND CONSUMPTION
BY PRIMARY ENERGY SOURCE

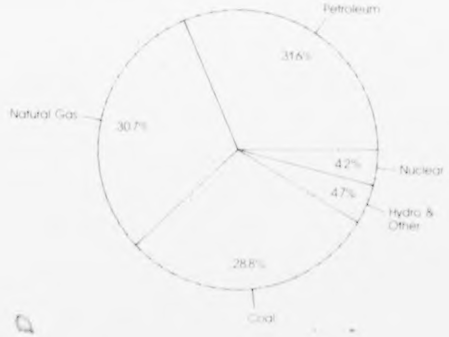
1982 Production
Total BTU's = 63.647 Quads



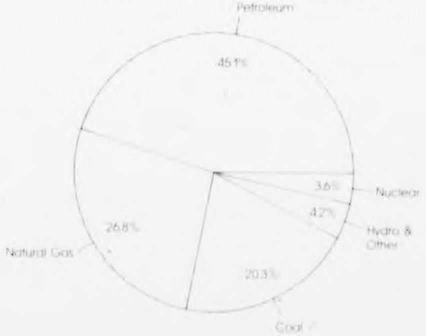
1982 Consumption
Total BTU's = 70.879 Quads



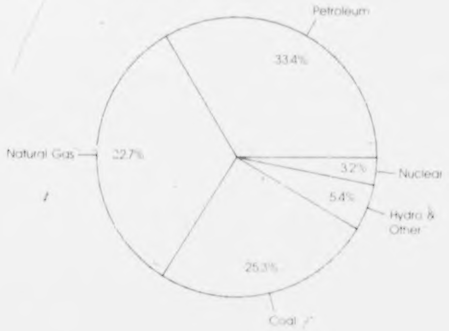
1980 Production
Total BTU's = 64.812 Quads



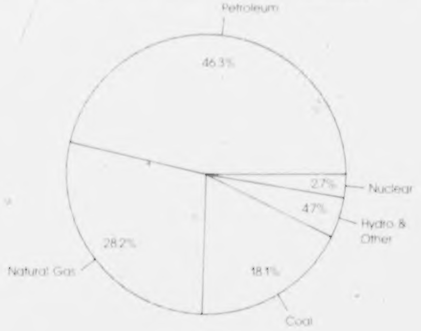
1980 Consumption
Total BTU's = 75.988 Quads



1975 Production
Total BTU's = 60.059 Quads



1975 Consumption
Total BTU's = 70.707 Quads



Source: 'Monthly Energy Review' July 1983.

TABLE 31
ENERGY SUPPLY AND DISPOSITION BALANCE BY YEARS
(QUADRILLION BTU)

	1982p	1981r	1980r	1979	1978	1977	1976	1975	1974	1973	1972
SUPPLY											
Production											
Crude Oil & Lease Condensate	18.36	18.15	18.25	18.10	18.43	17.45	17.26	17.73	18.57	19.49	20.04
Natural Gas Plant Liquids	2.23	2.31	2.25	2.29	2.25	2.33	2.33	2.37	2.47	2.57	2.60
Natural Gas	18.09	19.69	19.92	20.08	19.49	19.57	19.48	19.64	21.21	22.19	22.21
Coal	18.45	18.44	18.64	17.65	15.04	15.83	15.85	15.19	14.47	14.37	14.49
Nuclear	3.08	2.97	2.74	2.71	3.02	2.70	2.11	1.90	1.27	0.91	0.58
Hydro	3.25	2.74	2.90	2.93	2.94	2.33	2.98	3.15	3.18	2.86	2.86
Other	0.11	0.13	0.11	0.09	0.07	0.08	0.08	0.07	0.06	0.05	0.03
Total Production	**63.56**	**64.43**	**64.81**	**63.85**	**61.23**	**60.29**	**60.09**	**60.06**	**61.23**	**62.43**	**62.81**
Imports											
Crude Oil	7.35	9.34	11.19	13.83	13.46	14.03	11.24	8.72	7.40	6.89	4.71
Refined Petroleum Products	3.27	3.30	3.46	4.11	4.36	4.73	4.43	4.23	5.73	6.58	5.59
Natural Gas	0.99	0.92	1.01	1.30	0.99	1.04	0.99	0.98	0.99	1.06	1.05
Other	0.37	0.38	0.31	0.39	0.44	0.30	0.18	0.19	0.31	0.21	0.11
Total Imports	**11.97**	**13.94**	**15.97**	**19.62**	**19.26**	**20.09**	**16.84**	**14.11**	**14.42**	**14.73**	**11.46**
Adjustments	0.02	(0.07)	(1.07)	(1.66)	(0.36)	(1.96)	(0.21)	(1.08)	(0.65)	(0.48)	(0.51)
Total Supply	**75.55**	**78.30**	**79.72**	**81.81**	**80.13**	**78.43**	**76.72**	**73.09**	**75.00**	**76.68**	**73.77**
DISPOSITION											
Exports											
Coal	2.78	2.94	2.42	1.78	1.10	1.47	1.62	1.79	1.64	1.45	1.53
Other	1.84	1.37	1.31	1.12	0.85	0.63	0.59	0.60	0.60	0.63	0.61
Total Exports	**4.63**	**4.32**	**3.73**	**2.90**	**1.95**	**2.10**	**2.21**	**2.39**	**2.24**	**2.07**	**2.14**
Consumption											
Refined Petroleum Products	30.33	31.93	34.20	37.12	37.97	37.12	35.17	32.73	33.45	34.84	32.95
Natural Gas	18.43	19.93	20.39	20.67	20.00	19.93	20.35	19.95	21.73	22.51	22.70
Coal	15.42	15.97	15.46	15.11	13.85	13.96	13.73	12.82	12.88	13.30	12.45
Nuclear	3.08	2.97	2.74	2.71	3.02	2.70	2.11	1.90	1.27	0.91	0.58
Hydro	3.57	3.07	3.12	3.14	3.14	2.51	3.07	3.22	3.31	3.01	2.94
Other	0.11	0.13	0.11	0.09	0.07	0.08	0.08	0.07	0.06	0.05	0.03
Net Imports of Coal Coke	(0.02)	(0.02)	(0.04)	0.07	0.13	0.02	*	0.01	0.06	(0.01)	(0.03)
Total Consumption	**70.92**	**73.98**	**75.99**	**78.91**	**78.18**	**76.33**	**74.51**	**70.71**	**72.76**	**74.61**	**71.63**
Total Disposition	**75.55**	**78.30**	**79.72**	**81.81**	**80.13**	**78.43**	**76.72**	**73.09**	**75.00**	**76.68**	**73.77**

	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962
SUPPLY										
Production										
Crude Oil & Lease Condensate	20.03	20.40	19.56	19.31	18.65	17.56	16.52	16.16	15.97	15.52
Natural Gas Plant Liquids	2.54	2.51	2.42	2.32	2.18	2.00	1.88	1.60	1.71	1.59
Natural Gas	22.28	21.67	20.45	19.07	17.94	17.01	15.78	15.30	14.51	13.72
Coal	13.59	15.05	14.20	13.93	14.19	13.82	13.38	12.83	12.15	11.21
Nuclear	0.41	0.24	0.15	0.14	0.09	0.06	0.04	0.04	0.04	0.03
Hydro	2.82	2.63	2.65	2.35	2.35	2.06	2.06	1.89	1.77	1.81
Other	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	*
Total Production	**61.70**	**62.51**	**59.44**	**57.13**	**55.41**	**52.52**	**49.67**	**48.03**	**46.16**	**43.88**
Imports										
Crude Oil	3.57	2.81	2.99	2.76	2.40	2.62	2.65	2.58	2.43	2.42
Refined Petroleum Products	4.97	4.66	3.91	3.46	3.15	3.01	2.75	2.38	2.22	2.14
Natural Gas	0.96	0.85	0.75	0.67	0.58	0.50	0.47	0.46	0.42	0.42
Other	0.08	0.07	0.06	0.05	0.05	0.05	0.04	0.07	0.03	0.03
Total Imports	**9.58**	**8.39**	**7.71**	**6.93**	**6.19**	**6.18**	**5.92**	**5.49**	**5.10**	**5.01**
Adjustments	(0.81)	(1.41)	(0.47)	(0.71)	(1.56)	(0.85)	(0.74)	(0.90)	(0.80)	(0.61)
Total Supply	**70.47**	**69.49**	**66.68**	**63.35**	**60.04**	**57.85**	**54.85**	**52.62**	**50.46**	**48.29**
DISPOSITION										
Exports										
Coal	1.55	1.94	1.53	1.38	1.35	1.35	1.38	1.34	1.36	1.08
Other	0.63	0.73	0.62	0.65	0.79	0.50	0.48	0.51	0.49	0.40
Total Exports	**2.18**	**2.66**	**2.15**	**2.03**	**2.15**	**1.85**	**1.86**	**1.85**	**1.85**	**1.48**
Consumption										
Refined Petroleum Products	30.56	29.52	28.34	26.98	25.28	24.40	23.25	22.30	21.70	21.05
Natural Gas	22.47	21.79	20.68	19.21	17.94	17.00	15.77	15.29	14.40	13.73
Coal	12.01	12.66	12.72	12.66	12.24	12.48	11.89	11.25	10.69	10.17
Nuclear	0.41	0.24	0.15	0.14	0.09	0.06	0.04	0.04	0.04	0.03
Hydro	2.86	2.65	2.66	2.34	2.34	2.07	2.06	1.91	1.77	1.82
Other	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	*
Net Imports of Coal Coke	(0.03)	(0.06)	(0.04)	(0.02)	(0.02)	(0.03)	(0.02)	(0.01)	(0.01)	(0.01)
Total Consumption	**68.30**	**66.83**	**64.53**	**61.32**	**57.89**	**55.99**	**52.99**	**50.78**	**48.61**	**46.80**
Total Disposition	**70.47**	**69.49**	**66.68**	**63.35**	**60.04**	**57.85**	**54.85**	**52.62**	**50.46**	**48.29**

*Less than .005 Quadrillion BTU.

( ) Denotes negative figure. p Preliminary. r Revised.

Note: Sum of components may not equal total due to independent rounding.

Source: Energy Information Administration, 1982 Annual Energy Review.

TABLE 32
ANNUAL PRODUCTION OF ENERGY RESOURCES BY YEARS
(QUADRILLION BTU)

Year	Coal	Natural Gas*	Natural Gas Plant Liquids	Petroleum**	Hydro	Nuclear	Other†	Total
1982p	**18.45**	**18.09**	**2.23**	**18.36**	**3.25**	**3.08**	**0.10**	**63.56**
1981r	18.44	19.69	2.31	18.15	2.74	2.97	0.12	64.43
1980r	18.64	19.92	2.25	18.25	2.90	2.74	0.11	64.81
1979	17.65	20.08	2.29	18.10	2.93	2.71	0.09	63.85
1978	15.04	19.49	2.25	18.43	2.94	3.02	0.06	61.23
1977	15.83	19.57	2.33	17.45	2.33	2.70	0.09	60.29
1976	15.85	19.48	2.33	17.26	2.98	2.11	0.08	60.09
1975	15.19	19.64	2.37	17.73	3.15	1.90	0.07	60.06
1974	14.47	21.21	2.47	18.57	3.18	1.27	0.05	61.23
1973	14.37	22.19	2.57	19.49	2.86	0.91	0.04	62.43
1972	14.49	22.21	2.60	20.04	2.86	0.58	0.03	62.81
1971	13.59	22.28	2.54	20.03	2.82	0.41	0.01	61.70
1970	15.05	21.67	2.51	20.10	2.63	0.24	0.01	62.51
1969	14.20	20.45	2.42	19.56	2.65	0.15	0.01	59.44
1968	13.93	19.07	2.32	19.31	2.35	0.14	0.01	57.13
1967	14.19	17.94	2.18	18.65	2.35	0.09	0.01	55.41
1966	13.82	17.01	2.00	17.56	2.06	0.06	‡	52.52
1965	13.38	15.78	1.88	16.52	2.06	0.04	‡	49.67
1964	12.83	15.30	1.80	16.16	1.89	0.04	‡	48.03
1963	12.15	14.51	1.71	15.97	1.77	0.04	‡	46.16
1962	11.21	13.72	1.59	15.52	1.81	0.03	‡	43.88

*Dry market natural gas.

**Crude oil and lease condensate.

†Includes geothermal, wood and waste.

‡Less than .005 Quadrillion BTU.

p Preliminary. r Revised.

Note: Sum of components may not equal total due to independent rounding.

Source: Energy Information Administration, 1982 Annual Energy Review.

TABLE 33
TOTAL ENERGY CONSUMPTION BY YEARS
(QUADRILLION BTU)

Year	Coal	Natural Gas (Dry)	Petroleum*	Hydro	Nuclear	Other**	Total
1982p	**15.42**	**18.43**	**30.33**	**3.57**	**3.08**	**0.08**	**70.92**
1981r	15.97	19.93	31.93	3.07	2.97	0.10	73.98
1980r	15.46	20.39	34.20	3.12	2.74	0.07	75.99
1979	15.11	20.67	37.12	3.14	2.71	0.16	78.91
1978	13.85	20.00	37.97	3.14	3.02	0.19	78.18
1977	13.96	19.93	37.12	2.51	2.70	0.11	76.33
1976	13.73	20.35	35.17	3.07	2.11	0.08	74.51
1975	12.82	19.95	32.73	3.22	1.90	0.08	70.71
1974	12.88	21.73	33.45	3.31	1.27	0.11	72.76
1973	13.30	22.51	34.84	3.01	0.91	0.03	74.61
1972	12.45	22.70	32.95	2.94	0.58	0.00	71.63
1971	12.01	22.47	30.56	2.86	0.41	(0.02)	68.30
1970	12.66	21.79	29.52	2.65	0.24	(0.05)	66.83
1969	12.72	20.68	28.34	2.66	0.15	(0.03)	64.53
1968	12.66	19.21	26.98	2.34	0.14	(0.01)	61.32
1967	12.24	17.94	25.28	2.34	0.09	(0.01)	57.89
1966	12.48	17.00	24.40	2.07	0.06	(0.03)	55.99
1965	11.89	15.77	23.25	2.06	0.04	(0.02)	52.99
1964	11.25	15.29	22.30	1.91	0.04	(0.01)	50.78
1963	10.69	14.40	21.70	1.77	0.04	(0.01)	48.61
1962	10.17	13.73	21.05	1.82	0.03	(0.01)	46.80

*Refined petroleum products supplied including natural gas plant liquids and crude oil burned as fuel.

**Includes geothermal, wood and waste and net imports of coal coke.

( ) Denotes negative figure.

p Preliminary. r Revised.

Note: Sum of components may not equal total due to independent rounding.

Source: Energy Information Administration, 1982 Annual Energy Review.

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TABLE 34
ANNUAL CONSUMPTION OF FOSSIL ENERGY RESOURCES
BY KIND OF FUEL, BY SECTOR*
(QUADRILLION BTU)

	1982p	1981r	1980r	1979r	1978r	1977r
Coal						
Residential & Commercial	0.20	0.19	0.16	0.21	0.24	0.23
Industrial	2.63	3.21	3.18	3.64	3.37	3.50
Transportation	**	**	**	**	**	**
Electric Utilities	12.52	12.58	12.12	11.26	10.24	10.24
Total	**15.35**	**15.97**	**15.46**	**15.11**	**13.85**	**13.96**
Natural Gas (Dry)						
Residential & Commercial	7.50	7.24	7.54	7.89	7.62	7.46
Industrial	6.91	8.26	8.39	8.55	8.54	8.64
Transportation	0.61	0.66	0.65	0.61	0.54	0.54
Electric Utilities	3.34	3.76	3.81	3.61	3.30	3.28
Total	**18.36**	**19.93**	**20.39**	**20.67**	**20.00**	**19.93**
Petroleum						
Residential & Commercial	2.49	2.64	3.04	3.45	4.07	4.21
Industrial	7.85	8.31	9.54	10.58	9.91	9.81
Transportation	18.42	18.79	19.00	19.81	20.00	19.21
Electric Utilities	1.57	2.20	2.63	3.28	3.99	3.90
Total	**30.33**	**31.93**	**34.20**	**37.12**	**37.97**	**37.12**

*Sector data excludes electricity sales and energy losses attributed to electric generation.

**Since 1976 the amount of coal consumed by the transportation sector has been negligible.

p Preliminary. Total consumption by fuels will not agree with Energy Supply and Disposition Balance (Table 31) and Total Energy Consumption (Table 33) due to data revisions.

r Revised.

Note: Sum of components may not equal total due to independent rounding.

Source: Energy Information Administration, Monthly Energy Review.

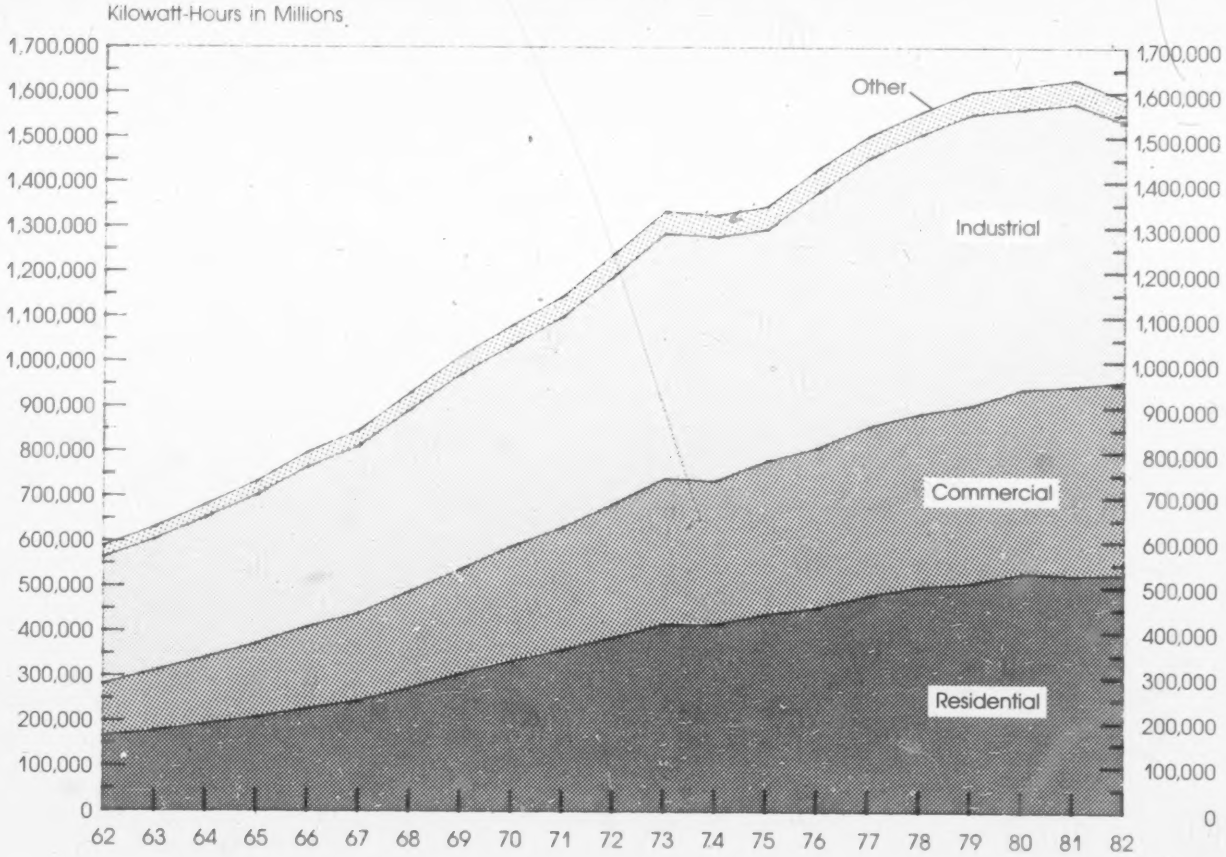
ENERGY SALES

SECTION VI

Chart VI-A

SALES TO ULTIMATE CUSTOMERS

INVESTOR-OWNED UTILITIES



Based on Table 39, page 43.

TABLE 38
ENERGY SALES—TOTAL ELECTRIC UTILITY INDUSTRY
BY YEAR AND CLASS OF SERVICE
KILOWATT-HOURS IN MILLIONS

Year	Total Sales	Exports to Canada and Mexico	Total Sales to Ultimate Customers	Residential	Commercial*	Industrial*	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Interdepartmental
1982p	**2,097,132**	**3,540**	**2,093,592**	**729,240**	**514,087**	**770,670**	**14,188**	**55,729**	**4,288**	**5,390**
1981r	2,152,506	1,832	2,150,674	730,479	521,698	819,641	14,683	53,737	4,206	6,230
1980	2,130,190	4,096	2,126,094	734,411	524,122	793,812	14,832	48,284	4,275	6,358
1979	2,086,582	2,182	2,084,400	695,996	494,723	817,617	14,792	49,604	4,256	7,412
1978	2,020,004	2,186	2,017,818	679,156	480,748	782,141	14,803	49,509	4,336	7,125
1977	1,953,535	2,744	1,950,791	652,345	469,227	757,168	14,418	46,242	4,212	7,179
1976	1,852,003	2,378	1,849,625	613,072	440,625	725,169	14,413	45,625	4,338	6,383
1975	1,738,107	5,083	1,733,024	586,149	418,069	661,558	13,907	43,625	4,273	5,443
1974	1,703,495	2,726	1,700,769	554,960	392,716	689,435	13,313	40,721	4,258	5,366
1973	1,705,773	2,570	1,703,203	554,171	396,903	687,235	12,836	42,340	4,186	5,532
1972	1,580,466	2,752	1,577,714	511,423	361,859	639,467	12,193	43,190	4,440	5,142
1971	1,469,955	3,514	1,466,441	479,080	333,752	592,700	11,673	39,819	4,537	4,880
1970	1,395,568	4,209	1,391,359	447,795	312,750	572,522	11,183	37,816	4,633	4,660
1969	1,311,008	3,830	1,307,178	407,922	286,686	557,220	10,772	35,861	4,531	4,186
1968	1,206,606	4,285	1,202,321	367,692	265,151	518,834	10,302	32,162	4,540	3,640
1967	1,111,373	4,350	1,107,023	331,525	242,492	486,043	9,863	29,426	4,572	3,102
1966	1,042,158	3,176	1,038,982	306,572	225,878	465,077	9,240	25,922	4,514	1,779
1965	957,113	3,699	953,414	280,970	202,112	433,365	8,782	21,675	4,652	1,858
1964	894,609	4,253	890,356	262,010	183,539	409,356	8,290	20,651	4,721	1,789
1963	832,796	1,985	830,811	241,692	166,516	388,399	7,748	20,194	4,667	1,595
1962	777,749	1,661	776,088	226,414	144,095	373,916	7,350	18,349	4,717	1,247

*Commercial and Industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another.
p Preliminary. r Revised.

TABLE 39
ENERGY SALES—INVESTOR-OWNED ELECTRIC UTILITIES
BY YEAR AND CLASS OF SERVICE
KILOWATT-HOURS IN MILLIONS

Year	Total Sales	Sales for Resale†	Total Sales to Ultimate Customers	Residential	Commercial*	Industrial*	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Interdepartmental
1982p	**1,695,581**	**109,796**	**1,585,785**	**528,969**	**429,035**	**575,364**	**10,671**	**36,968**	**1,924**	**2,854**
1981r	1,745,234	116,248	1,628,986	527,119	420,014	628,481	10,918	37,623	1,939	2,892
1980	1,732,553	118,745	1,613,808	532,025	408,265	623,472	10,820	34,449	2,156	2,621
1979	1,719,640	117,408	1,602,232	509,655	394,511	648,031	10,854	34,165	2,103	2,913
1978	1,675,477	118,716	1,556,761	501,409	384,726	620,470	11,042	34,386	2,085	2,643
1977	1,619,820	115,409	1,504,411	481,167	375,903	598,042	10,912	33,208	2,450	2,729
1976	1,530,286	99,496	1,430,790	453,774	355,555	569,134	11,276	34,810	3,930	2,311
1975	1,447,147	101,273	1,345,874	439,496	340,082	515,798	10,868	33,528	4,158	1,944
1974	1,418,958	93,201	1,325,757	416,333	319,706	542,234	10,409	30,876	4,161	2,038
1973	1,417,386	82,990	1,334,396	416,851	323,018	545,912	10,034	32,452	4,086	2,043
1972	1,316,379	76,572	1,239,807	386,561	297,028	507,080	9,581	33,491	4,333	1,733
1971	1,215,614	70,009	1,145,605	358,564	272,703	468,512	9,206	30,618	4,424	1,578
1970	1,142,777	63,032	1,079,745	333,895	254,684	447,664	8,814	28,721	4,520	1,447
1969	1,070,721	58,641	1,012,080	304,497	232,965	433,422	8,441	26,928	4,417	1,410
1968	984,542	55,572	928,970	272,792	215,090	403,468	8,089	23,908	4,424	1,199
1967	890,755	45,334	845,421	244,416	194,772	371,319	7,695	21,726	4,445	1,048
1966	840,093	43,776	796,317	226,727	182,923	354,759	7,299	19,427	4,403	779
1965	770,804	39,471	731,333	207,580	164,354	329,541	6,943	17,683	4,543	689
1964	717,951	37,980	679,971	192,855	148,050	310,678	6,592	16,580	4,606	610
1963	665,808	35,160	630,648	178,157	133,679	291,542	6,251	15,859	4,567	593
1962	621,040	32,492	588,548	165,598	115,792	281,701	5,947	14,464	4,674	372

† To non-investor-owned electric utilities and exports.
*Commercial and Industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another.
p Preliminary. r Revised.

TABLE 40
ENERGY SALES IN PERCENT OF TOTAL—TOTAL ELECTRIC UTILITY INDUSTRY
BY YEAR AND CLASS OF SERVICE

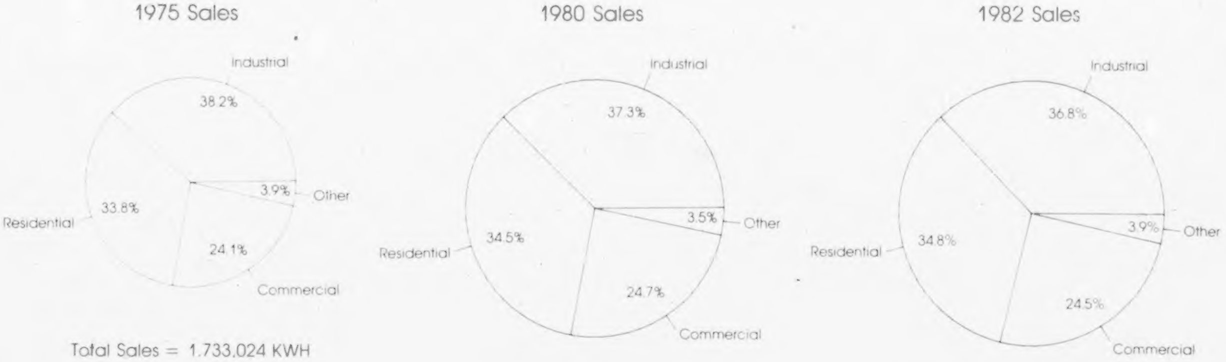
Year	Residential	Commercial	Industrial	Street & Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-depart-mental
1982p	**34.8%**	**24.5%**	**36.8%**	**0.7%**	**2.7%**	**0.2%**	**0.3%**
1981r	34.0	24.2	38.1	0.7	2.5	0.2	0.3
1980	34.5	24.7	37.3	0.7	2.3	0.2	0.3
1979	33.4	23.7	39.2	0.7	2.4	0.2	0.4
1978	33.7	23.8	38.8	0.7	2.4	0.2	0.4
1977	33.4	24.1	38.8	0.7	2.4	0.2	0.4
1976	33.2	23.8	39.2	0.8	2.5	0.2	0.3
1975	33.8	24.1	38.2	0.8	2.5	0.3	0.3
1974	32.6	23.1	40.5	0.8	2.4	0.3	0.3
1973	32.5	23.3	40.4	0.8	2.5	0.2	0.3
1972	32.4	23.0	40.5	0.8	2.7	0.3	0.3
1971	32.7	22.8	40.4	0.8	2.7	0.3	0.3
1970	32.2	22.5	41.2	0.8	2.7	0.3	0.3
1969	31.2	21.9	42.7	0.8	2.7	0.4	0.3
1968	30.6	22.1	43.1	0.8	2.7	0.4	0.3
1967	29.9	21.9	43.9	0.9	2.7	0.4	0.3
1966	29.5	21.7	44.8	0.9	2.5	0.4	0.2
1965	29.5	21.2	45.4	0.9	2.3	0.5	0.2
1964	29.4	20.6	46.0	0.9	2.3	0.6	0.2
1963	29.1	20.0	46.8	0.9	2.4	0.6	0.2
1962	29.2	18.6	48.2	0.9	2.3	0.6	0.2

Based on Table 38. p Preliminary. r Revised.

Chart VI-B

ENERGY SALES

BY YEAR AND CLASS OF SERVICE
TOTAL ELECTRIC UTILITY INDUSTRY
KILOWATT-HOURS IN MILLIONS



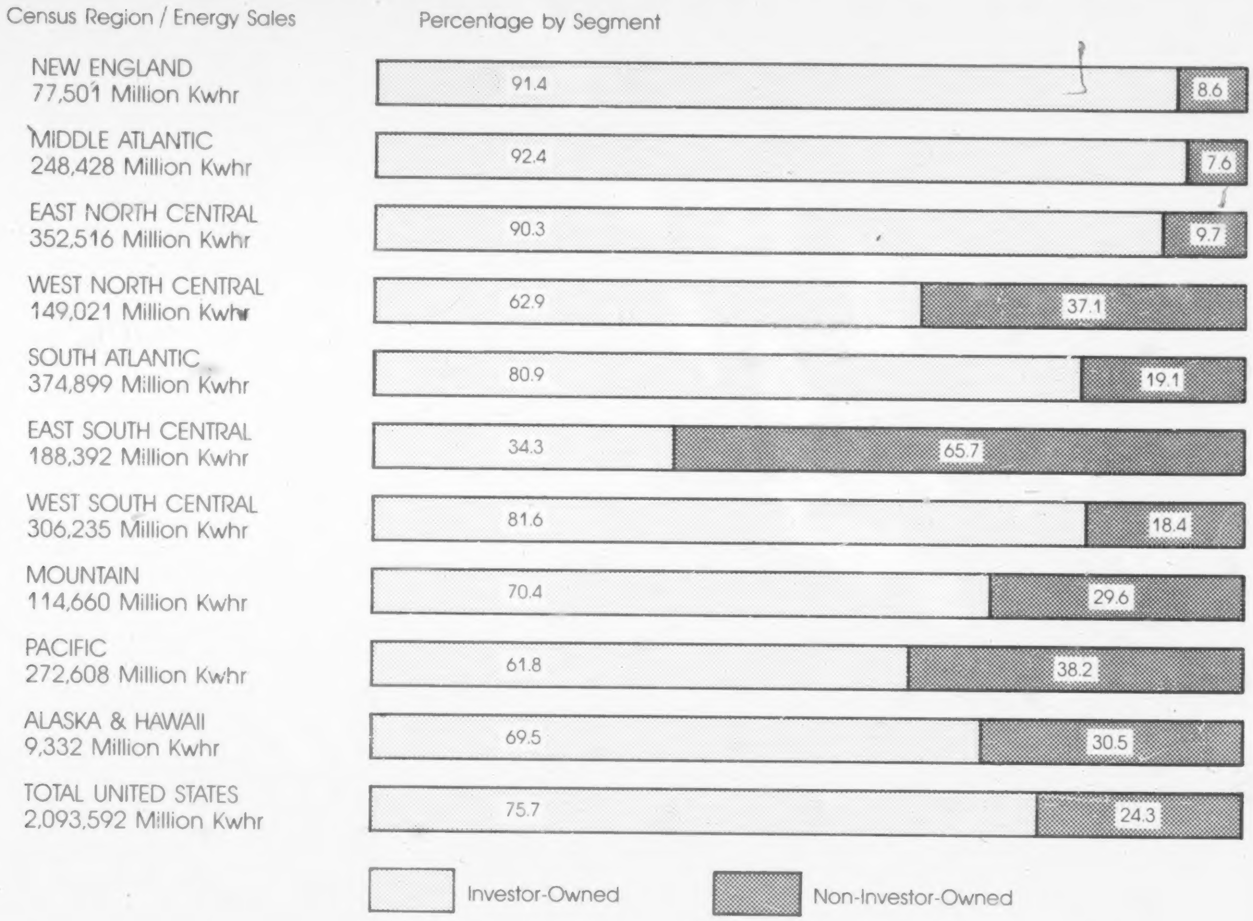
Total Sales = 1,733,024 KWH

Total Sales = 2,126,094 KWH

Total Sales = 2,093,592 KWH

Based on Table 40, as shown above.

Chart VI-C
ENERGY SALES TO ULTIMATE CUSTOMERS
BY INVESTOR-OWNED AND NON-INVESTOR-OWNED ELECTRIC UTILITIES



Based on Table 41A, page 46 and Table 42A, page 48.

TABLE 41A
ENERGY SALES—TOTAL ELECTRIC UTILITY INDUSTRY
BY STATE AND CLASS OF SERVICE
YEAR 1982p—KILOWATT-HOURS IN MILLIONS

Division/State	Total to Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**2,093,592**	**729,240**	**514,087**	**770,670**	**14,188**	**55,729**	**4,288**	**5,390**
Maine	8,198	3,035	1,584	3,388	64	124	—	3
New Hampshire	6,140	2,551	1,135	2,370	44	40	—	—
Vermont	3,939	1,764	723	1,299	19	133	—	1
Massachusetts	33,321	12,039	12,076	8,233	373	520	79	1
Rhode Island	4,937	1,826	1,691	1,240	73	107	—	—
Connecticut	20,966	8,033	7,085	5,588	223	27	1	9
New England	**77,501**	**29,248**	**24,294**	**22,118**	**796**	**951**	**80**	**14**
New York	104,974	30,686	33,768	30,929	1,199	6,018	2,314	60
New Jersey	48,803	15,849	17,214	15,249	459	—	7	25
Pennsylvania	94,651	31,651	21,139	40,400	589	130	680	62
Middle Atlantic	**248,428**	**78,186**	**72,121**	**86,578**	**2,247**	**6,148**	**3,001**	**147**
Ohio	100,557	31,197	21,091	44,353	692	3,159	45	20
Indiana	55,792	19,639	10,345	25,159	379	187	12	71
Illinois	93,481	29,050	25,875	31,993	728	5,495	337	3
Michigan	64,236	21,477	14,679	26,071	471	1,460	—	78
Wisconsin	38,450	14,415	9,189	13,888	460	409	—	89
East North Central	**352,516**	**115,778**	**81,179**	**141,464**	**2,730**	**10,710**	**394**	**261**
Minnesota	34,108	12,855	5,690	14,689	246	605	—	23
Iowa	24,540	9,761	5,255	8,970	220	333	—	1
Missouri	40,354	16,761	12,502	9,850	297	905	17	22
North Dakota	6,035	2,824	1,037	1,703	56	412	—	3
South Dakota	5,011	2,548	1,259	888	45	271	—	—
Nebraska	16,660	7,037	4,848	3,842	142	728	17	46
Kansas	22,313	7,714	7,380	6,801	202	214	—	2
West North Central	**149,021**	**59,500**	**37,971**	**46,743**	**1,208**	**3,468**	**34**	**97**
Delaware	5,457	1,723	1,326	2,233	166	1	—	8
Maryland and D.C.	41,663	13,482	11,360	16,006	333	83	321	78
Virginia	50,305	19,900	12,398	12,326	256	5,331	20	74
West Virginia	19,781	6,458	3,907	9,316	65	34	—	1
North Carolina	66,412	24,909	15,096	25,190	277	933	—	7
South Carolina	41,354	13,560	7,754	19,497	103	431	—	9
Georgia	54,848	21,261	12,559	20,446	293	214	75	—
Florida	95,079	46,202	31,048	14,598	644	2,476	—	111
South Atlantic	**374,899**	**147,495**	**95,448**	**119,612**	**2,137**	**9,503**	**416**	**288**
Kentucky	49,736	13,252	5,908	27,985	178	2,401	—	12
Tennessee	69,332	24,598	4,654	39,495	363	111	—	111
Alabama	46,275	16,485	6,927	22,544	201	51	—	67
Mississippi	23,049	9,652	4,434	8,415	130	418	—	—
East South Central	**188,392**	**63,987**	**21,923**	**98,439**	**872**	**2,981**	**—**	**190**
Arkansas	22,288	8,488	4,324	8,849	88	524	15	—
Louisiana	58,166	18,166	10,819	25,148	301	1,688	—	2,044
Oklahoma	36,101	13,199	8,642	10,151	144	3,965	—	—
Texas	189,680	61,579	44,988	78,301	908	3,584	—	320
West South Central	**306,235**	**101,432**	**68,773**	**122,449**	**1,441**	**9,761**	**15**	**2,364**
Montana	10,435	3,175	2,167	4,882	62	132	—	17
Idaho	15,725	5,642	3,710	6,308	61	4	—	—
Wyoming	8,287	1,712	1,424	5,039	22	76	—	14
Colorado	22,455	7,624	8,945	5,412	180	203	—	91
New Mexico	9,992	2,745	2,983	3,478	64	659	—	63
Arizona	25,649	9,306	8,158	7,301	142	608	28	106
Utah	12,018	3,630	3,033	4,610	72	672	—	1
Nevada	10,099	3,758	1,637	4,432	78	191	—	3
Mountain	**114,660**	**37,592**	**32,057**	**41,462**	**681**	**2,545**	**28**	**295**
Washington	71,402	26,639	13,794	29,618	310	983	22	36
Oregon	36,560	14,589	9,679	12,062	153	54	—	23
California	164,646	51,643	54,545	46,469	1,541	8,483	297	1,668
Pacific	**272,608**	**92,871**	**78,018**	**88,149**	**2,004**	**9,520**	**319**	**1,727**
Alaska	3,026	1,357	913	590	16	142	1	7
Hawaii	6,306	1,794	1,390	3,066	56	—	—	—
Alaska & Hawaii	**9,332**	**3,151**	**2,303**	**3,656**	**72**	**142**	**1**	**7**

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TABLE 41B
ENERGY SALES—TOTAL ELECTRIC UTILITY INDUSTRY
BY STATE AND CLASS OF SERVICE
YEAR 1981r—KILOWATT-HOURS IN MILLIONS

Division/State	Total to Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-depart-mental
Total United States	**2,150,674**	**730,479**	**521,698**	**819,641**	**14,683**	**53,737**	**4,206**	**6,230**
Maine	8,150	3,069	1,603	3,262	64	150	—	2
New Hampshire	6,091	2,510	1,108	2,384	43	46	—	—
Vermont	3,915	1,748	699	1,315	20	132	—	1
Massachusetts	33,163	11,810	11,695	8,710	406	423	61	58
Rhode Island	5,028	1,807	1,675	1,368	74	104	—	—
Connecticut	21,496	8,183	6,934	6,114	224	32	—	9
New England	**77,843**	**29,127**	**23,714**	**23,153**	**831**	**887**	**61**	**70**
New York	106,337	30,604	33,553	32,642	1,165	6,064	2,254	55
New Jersey	49,604	16,081	16,779	16,277	433	1	7	26
Pennsylvania	100,697	31,730	20,859	46,641	575	159	669	64
Middle Atlantic	**256,638**	**78,415**	**71,191**	**95,560**	**2,173**	**6,224**	**2,930**	**145**
Ohio	114,400	33,245	22,398	54,816	717	3,141	45	38
Indiana	56,506	19,336	10,297	26,276	367	178	12	40
Illinois	96,839	29,016	26,456	35,042	737	5,224	351	13
Michigan	67,506	21,762	15,009	29,026	466	1,159	—	84
Wisconsin	38,136	13,920	9,252	14,033	466	403	—	62
East North Central	**373,387**	**117,279**	**83,412**	**159,193**	**2,753**	**10,105**	**408**	**237**
Minnesota	34,766	12,126	6,226	15,708	222	455	—	29
Iowa	24,970	9,534	5,306	9,574	213	335	—	8
Missouri	40,341	16,557	12,573	10,112	288	762	17	32
North Dakota	5,601	2,582	1,349	1,323	49	293	—	5
South Dakota	4,931	2,470	1,390	809	40	218	—	4
Nebraska	14,708	5,751	4,830	3,421	159	483	18	46
Kansas	22,175	7,574	7,269	6,932	170	227	—	3
West North Central	**147,492**	**56,594**	**38,943**	**47,879**	**1,141**	**2,773**	**35**	**127**
Delaware	5,669	1,690	1,263	2,423	285	1	—	7
Maryland and D.C.	42,308	13,391	11,314	16,833	324	48	325	73
Virginia	50,209	20,348	12,821	11,522	246	5,184	21	67
West Virginia	20,958	6,550	3,830	10,479	64	32	—	3
North Carolina	66,305	25,626	14,693	24,830	258	878	—	20
South Carolina	41,397	13,965	7,802	18,749	98	772	—	11
Georgia	55,956	22,001	13,109	20,307	290	185	61	3
Florida	95,607	47,606	27,047	17,956	608	2,291	—	99
South Atlantic	**378,409**	**151,177**	**91,879**	**123,099**	**2,173**	**9,391**	**407**	**283**
Kentucky	51,237	13,751	9,635	23,770	222	3,796	—	63
Tennessee	71,823	25,278	4,673	40,972	581	71	—	248
Alabama	50,639	17,286	7,068	25,861	247	50	—	127
Mississippi	23,566	9,790	4,731	8,455	159	417	—	14
East South Central	**197,265**	**66,105**	**26,107**	**99,058**	**1,209**	**4,334**	**—**	**452**
Arkansas	23,703	8,763	4,939	9,486	89	408	16	2
Louisiana	61,067	18,522	10,861	27,337	355	1,751	—	2,241
Oklahoma	33,647	12,610	8,691	9,540	133	2,673	—	—
Texas	186,402	58,228	44,168	79,653	866	3,257	—	230
West South Central	**304,819**	**98,123**	**68,659**	**126,016**	**1,443**	**8,089**	**16**	**2,173**
Montana	11,048	2,946	2,114	5,797	61	114	—	16
Idaho	16,379	5,147	4,511	6,572	59	88	—	2
Wyoming	7,987	1,620	2,228	4,039	23	62	—	15
Colorado	22,504	7,325	8,331	6,229	183	354	—	82
New Mexico	10,177	2,671	3,536	3,275	61	580	—	54
Arizona	29,399	9,942	9,147	9,161	137	731	27	254
Utah	11,797	3,477	3,399	4,298	70	550	—	3
Nevada	10,180	3,701	1,747	4,399	75	227	—	31
Mountain	**119,471**	**36,829**	**35,013**	**43,770**	**669**	**2,706**	**27**	**457**
Washington	76,047	26,549	13,609	34,166	310	962	18	433
Oregon	38,597	13,827	9,746	14,764	177	54	—	29
California	171,137	53,149	56,754	49,581	1,725	8,108	302	1,518
Pacific	**285,781**	**93,525**	**80,109**	**98,511**	**2,212**	**9,124**	**320**	**1,980**
Alaska	3,108	1,428	1,230	323	15	104	2	6
Hawaii	6,461	1,877	1,441	3,079	64	—	—	—
Alaska & Hawaii	**9,569**	**3,305**	**2,671**	**3,402**	**79**	**104**	**2**	**6**

r Revised.

TABLE 42A
ENERGY SALES—INVESTOR-OWNED ELECTRIC UTILITIES
BY STATE AND CLASS OF SERVICE
YEAR 1982p—KILOWATT-HOURS IN MILLIONS

Division/State	Total to Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**1,585,785**	**528,969**	**429,035**	**575,364**	**10,671**	**36,968**	**1,924**	**2,854**
Maine	7,983	2,914	1,547	3,341	62	119	—	—
New Hampshire	5,698	2,275	1,062	2,281	42	38	—	—
Vermont	3,183	1,367	591	1,109	14	102	—	—
Massachusetts	29,068	10,342	11,265	6,755	339	288	79	—
Rhode Island	4,917	1,813	1,689	1,236	72	107	—	—
Connecticut	19,992	7,781	6,892	5,105	213	—	1	—
New England	**70,841**	**26,492**	**23,046**	**19,827**	**742**	**654**	**80**	**—**
New York	89,303	29,688	33,197	23,392	641	2,236	111	38
New Jersey	48,113	15,518	17,098	15,011	454	—	7	25
Pennsylvania	92,002	29,865	20,782	39,937	558	117	680	63
Middle Atlantic	**229,418**	**75,071**	**71,077**	**78,340**	**1,653**	**2,353**	**798**	**126**
Ohio	93,144	27,156	19,929	42,508	598	2,890	45	18
Indiana	46,668	14,251	9,237	22,642	312	144	12	70
Illinois	86,925	25,622	24,294	30,704	699	5,266	337	3
Michigan	58,745	19,427	13,360	24,676	426	780	—	76
Wisconsin	32,808	11,400	8,599	12,011	411	363	—	24
East North Central	**318,290**	**97,856**	**75,419**	**132,541**	**2,446**	**9,443**	**394**	**191**
Minnesota	24,254	6,845	3,734	13,033	192	437	—	13
Iowa	18,584	6,192	4,359	7,582	182	268	—	1
Missouri	29,658	10,745	10,565	7,724	241	379	—	4
North Dakota	3,495	1,513	756	1,070	54	99	—	3
South Dakota	2,539	1,055	873	552	30	29	—	—
Nebraska	—	—	—	—	—	—	—	—
Kansas	15,270	5,275	5,053	4,740	151	49	—	2
West North Central	**93,800**	**31,625**	**25,340**	**34,701**	**850**	**1,261**	**—**	**23**
Delaware	4,366	1,246	1,145	1,942	25	—	—	8
Maryland and D.C.	39,900	12,464	11,114	15,598	315	11	320	78
Virginia	44,676	16,795	11,585	10,796	218	5,262	20	—
West Virginia	19,706	6,415	3,884	9,308	65	33	—	1
North Carolina	50,541	17,425	12,721	19,521	214	655	—	5
South Carolina	29,180	8,521	6,090	14,101	85	374	—	9
Georgia	40,149	11,944	10,584	17,218	260	68	75	—
Florida	74,739	35,958	24,645	11,395	456	2,198	—	87
South Atlantic	**303,257**	**110,768**	**81,768**	**99,879**	**1,638**	**8,601**	**415**	**188**
Kentucky	22,515	7,553	4,925	7,533	138	2,354	—	12
Tennessee	1,051	477	216	327	4	27	—	—
Alabama	28,464	9,154	5,716	13,460	133	—	—	1
Mississippi	12,544	4,457	3,361	4,285	92	349	—	—
East South Central	**64,574**	**21,641**	**14,218**	**25,605**	**367**	**2,730**	**—**	**13**
Arkansas	16,477	5,284	3,548	7,127	77	441	—	—
Louisiana	51,103	14,059	8,953	24,245	275	1,527	—	2,044
Oklahoma	25,125	9,141	6,648	7,633	129	1,574	—	—
Texas	157,152	47,141	37,449	68,830	713	3,019	—	—
West South Central	**249,857**	**75,625**	**56,598**	**107,835**	**1,194**	**6,561**	**—**	**2,044**
Montana	6,619	2,156	1,796	2,530	61	62	—	14
Idaho	13,578	4,712	2,994	5,844	26	2	—	—
Wyoming	5,648	1,075	967	3,568	20	6	—	12
Colorado	14,994	4,641	7,080	2,988	148	133	—	4
New Mexico	7,178	2,004	2,315	2,239	58	503	—	59
Arizona	14,359	4,717	4,985	4,352	89	204	—	12
Utah	9,501	2,825	2,324	3,852	49	451	—	—
Nevada	8,858	3,553	1,442	3,599	78	186	—	—
Mountain	**80,735**	**25,683**	**23,903**	**28,972**	**529**	**1,547**	**—**	**101**
Washington	20,886	11,452	5,896	3,436	102	—	—	—
Oregon	24,758	10,897	7,267	6,446	131	8	—	9
California	122,881	39,989	43,066	34,696	962	3,773	236	159
Pacific	**168,525**	**62,338**	**56,229**	**44,578**	**1,195**	**3,781**	**236**	**168**
Alaska	182	76	47	20	1	37	1	—
Hawaii	6,306	1,794	1,390	3,066	56	—	—	—
Alaska & Hawaii	**6,488**	**1,870**	**1,437**	**3,086**	**57**	**37**	**1**	**—**

p Preliminary.

TABLE 42B
ENERGY SALES—INVESTOR-OWNED ELECTRIC UTILITIES
BY STATE AND CLASS OF SERVICE
YEAR 1981r—KILOWATT-HOURS IN MILLIONS

Division/State	Total to Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**1,628,986**	**527,119**	**420,014**	**628,481**	**10,918**	**37,623**	**1,939**	**2,892**
Maine	7,923	2,947	1,552	3,217	62	145	—	—
New Hampshire	5,653	2,234	1,005	2,327	42	45	—	—
Vermont	3,140	1,344	566	1,113	15	102	—	—
Massachusetts	29,055	10,166	10,897	7,300	351	280	61	—
Rhode Island	5,008	1,794	1,673	1,363	74	104	—	—
Connecticut	20,299	7,872	6,705	5,507	215	—	—	—
New England	**71,078**	**26,357**	**22,398**	**20,827**	**759**	**676**	**61**	—
New York	90,875	29,585	32,919	25,075	668	2,441	147	40
New Jersey	48,960	15,775	16,665	16,059	428	—	7	26
Pennsylvania	98,109	30,057	20,461	46,153	557	149	669	63
Middle Atlantic	**237,944**	**75,417**	**70,045**	**87,287**	**1,653**	**2,590**	**823**	**129**
Ohio	106,765	29,036	21,009	53,167	636	2,855	45	17
Indiana	47,676	14,023	8,857	24,280	322	143	12	39
Illinois	89,747	25,426	24,263	33,912	708	5,086	351	1
Michigan	61,629	19,580	13,379	27,420	416	759	—	75
Wisconsin	32,560	10,970	8,380	12,418	414	355	—	23
East North Central	**338,377**	**99,035**	**75,888**	**151,197**	**2,496**	**9,198**	**408**	**155**
Minnesota	24,658	6,244	3,498	14,364	188	349	—	15
Iowa	18,867	5,983	4,290	8,145	186	262	—	1
Missouri	29,938	10,575	10,226	8,519	243	372	—	3
North Dakota	3,135	1,299	701	994	46	92	—	3
South Dakota	2,492	996	851	586	30	29	—	—
Nebraska	—	—	—	—		—	—	—
Kansas	15,440	5,130	4,842	5,179	142	144	—	3
West North Central	**94,530**	**30,227**	**24,408**	**37,787**	**835**	**1,248**	—	**25**
Delaware	4,484	1,217	1,087	2,148	25	—	—	7
Maryland and D.C.	40,517	12,366	10,871	16,561	311	10	325	73
Virginia	44,346	17,064	11,526	10,408	215	5,112	21	—
West Virginia	20,885	6,504	3,810	10,472	65	31	—	3
North Carolina	51,671	17,763	12,298	20,667	209	726	—	8
South Carolina	30,289	8,761	5,969	15,103	83	364	—	9
Georgia	40,377	12,169	10,169	17,652	258	68	61	—
Florida	75,419	37,047	21,442	14,280	459	2,120	—	71
South Atlantic	**307,988**	**112,891**	**77,172**	**107,291**	**1,625**	**8,431**	**407**	**171**
Kentucky	24,051	7,542	4,772	7,951	137	3,638	—	11
Tennessee	1,134	512	219	370	4	29	—	—
Alabama	29,903	9,471	5,649	14,653	129	—	—	1
Mississippi	12,916	4,469	3,263	4,721	89	374	—	—
East South Central	**68,004**	**21,994**	**13,903**	**27,695**	**359**	**4,041**	—	**12**
Arkansas	17,382	5,234	3,511	8,207	79	351	—	—
Louisiana	53,815	14,279	8,816	26,826	271	1,458	—	2,165
Oklahoma	24,115	8,621	6,137	7,725	123	1,509	—	—
Texas	154,664	44,133	35,266	71,620	705	2,939	—	1
West South Central	**249.976**	**72,267**	**53,730**	**114,378**	**1,178**	**6,257**	—	**2,166**
Montana	6,309	1,948	1,661	2,565	61	62	—	12
Idaho	14,405	4,261	3,821	6,282	38	3	—	—
Wyoming	5,170	926	905	3,299	21	6	—	13
Colorado	14,845	4,321	5,803	4,263	149	306	—	3
New Mexico	7,142	1,915	2,228	2,446	55	459	—	39
Arizona	16,466	5,402	5,232	5,461	88	283	—	—
Utah	9,285	2,686	2,224	3,895	53	426	—	1
Nevada	8,758	3,493	1,457	3,508	75	225	—	—
Mountain	**82,380**	**24,952**	**23,331**	**31,719**	**540**	**1,770**	—	**68**
Washington	20,327	11,044	5,591	3,587	105	—	—	—
Oregon	24,680	10,148	7,212	7,156	151	5	—	8
California	127,051	40,828	44,845	36,460	1,152	3,369	239	158
Pacific	**172,058**	**62,020**	**57,648**	**47,203**	**1,408**	**3,374**	**239**	**166**
Alaska	190	82	50	18	1	38	1	—
Hawaii	6,461	1,877	1,441	3,079	64	—	—	—
Alaska & Hawaii	**6,651**	**1,959**	**1,491**	**3,097**	**65**	**38**	**1**	—

r Revised.

TABLE 43
ENERGY SALES—TOTAL ELECTRIC UTILITY INDUSTRY
BY QUARTER AND CLASS OF SERVICE
1977–1982—KILOWATT-HOURS IN MILLIONS

Year—Quarter	Total to Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
YEAR—1982p								
First Quarter	544,219	201,092	127,244	195,492	3,826	14,074	1,089	1,402
Second Quarter	498,989	163,203	121,847	194,387	3,247	14,080	1,018	1,207
Third Quarter	549,610	194,893	140,508	194,200	3,358	14,047	1,174	1,430
Fourth Quarter	500,774	170,052	124,488	186,591	3,757	13,528	1,007	1,351
Total	**2,093,592**	**729,240**	**514,087**	**770,670**	**14,188**	**55,729**	**4,288**	**5,390**
YEAR—1981r								
First Quarter	542,678	195,398	125,692	201,897	4,032	13,161	1,091	1,407
Second Quarter	508,314	159,571	123,517	206,284	3,334	13,135	1,017	1,456
Third Quarter	585,219	204,863	146,610	213,451	3,425	14,049	1,029	1,792
Fourth Quarter	514,463	170,647	125,879	198,009	3,892	13,392	1,069	1,575
Total	**2,150,674**	**730,479**	**521,698**	**819,641**	**14,683**	**53,737**	**4,206**	**6,230**
YEAR—1980								
First Quarter	541,213	195,081	127,121	200,014	3,924	12,401	1,102	1,570
Second Quarter	496,515	159,354	122,714	196,865	3,488	11,478	1,039	1,577
Third Quarter	570,696	208,225	146,316	197,511	3,493	12,499	1,049	1,603
Fourth Quarter	517,670	171,751	127,971	199,422	3,927	11,906	1,085	1,608
Total	**2,126,094**	**734,411**	**524,122**	**793,812**	**14,832**	**48,284**	**4,275**	**6,358**
YEAR—1979								
First Quarter	539,686	196,958	123,465	200,043	3,875	12,276	1,145	1,924
Second Quarter	496,338	153,062	117,830	207,124	3,465	11,764	1,044	2,049
Third Quarter	544,573	182,962	134,083	208,099	3,499	13,116	1,028	1,786
Fourth Quarter	503,803	163,014	119,345	202,351	3,953	12,448	1,039	1,653
Total	**2,084,400**	**695,996**	**494,723**	**817,617**	**14,792**	**49,604**	**4,256**	**7,412**
YEAR—1978								
First Quarter	508,415	188,190	117,887	183,238	3,882	12,287	1,199	1,732
Second Quarter	472,323	147,997	112,615	194,198	3,390	11,367	1,005	1,751
Third Quarter	538,243	183,515	133,195	202,711	3,515	12,477	1,021	1,809
Fourth Quarter	498,837	159,454	117,051	201,994	4,016	13,378	1,111	1,833
Total	**2,017,818**	**679,156**	**480,748**	**782,141**	**14,803**	**49,509**	**4,336**	**7,125**
YEAR—1977								
First Quarter	492,390	178,906	113,301	181,850	3,802	11,634	1,186	1,711
Second Quarter	460,222	140,685	110,807	191,522	3,316	11,144	993	1,755
Third Quarter	521,560	178,976	130,792	193,694	3,384	11,966	992	1,756
Fourth Quarter	476,619	153,778	114,327	190,102	3,916	11,498	1,041	1,957
Total	**1,950,791**	**652,345**	**469,227**	**757,168**	**14,418**	**46,242**	**4,212**	**7,179**

p Preliminary. r Revised.

TABLE 44
AVERAGE ANNUAL KWHR USE PER CUSTOMER

TOTAL ELECTRIC UTILITY INDUSTRY

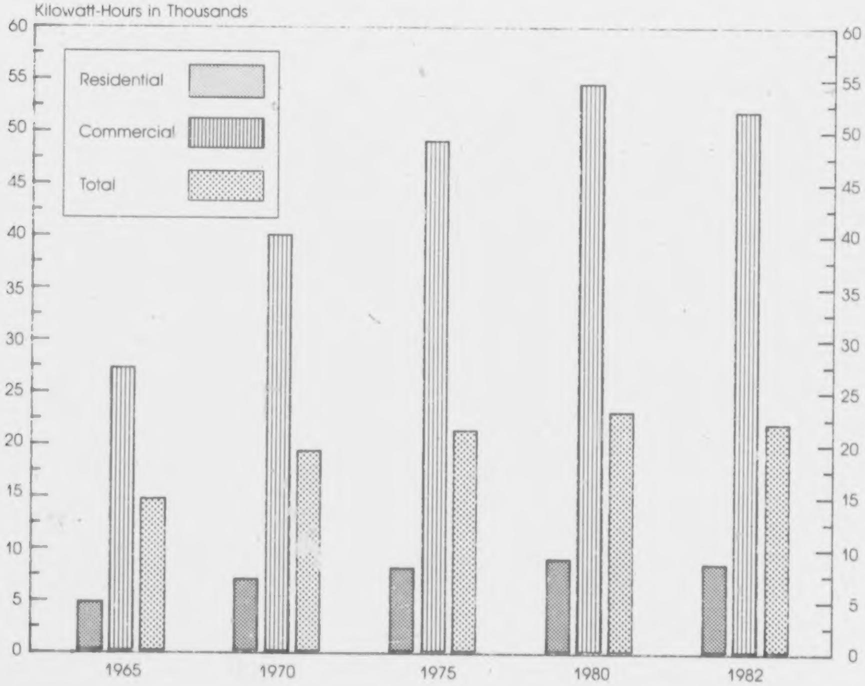
Year	Residential	Commercial	Total Ultimate Customers
1982p	**8,696**	**51,983**	**22,116**
1981r	8,825	53,402	23,026
1980	9,025	54,538	23,167
1979	8,843	53,197	23,481
1978	8,849	53,085	23,315
1977	8,693	52,892	23,052
1976	8,360	50,733	22,361
1975	8,176	48,964	21,417
1974	7,907	46,557	21,448
1973	8,079	47,580	21,955
1972	7,691	44,496	20,964
1971	7,380	41,943	19,956
1970	7,066	39,952	19,380
1969	6,571	36,950	18,563
1968	6,057	34,637	17,445
1967	5,577	32,041	16,384
1966	5,265	30,133	15,678
1965	4,933	27,399	14,694
1964	4,703	25,213	14,015
1963	4,442	23,224	13,366
1962	4,259	20,733	12,763

INVESTOR-OWNED ELECTRIC UTILITIES

Year	Residential	Commercial	Total Ultimate Customers
1982p	**8,234**	**56,104**	**21,866**
1981r	8,311	55,742	22,753
1980	8,539	55,210	22,949
1979	8,360	54,594	23,287
1978	8,430	54,653	23,197
1977	8,279	54,520	22,938
1976	7,969	52,560	22,263
1975	7,855	50,966	21,305
1974	7,574	48,426	21,343
1973	7,769	49,550	21,989
1972	7,413	46,565	21,002
1971	7,062	43,596	19,917
1970	6,720	41,272	19,167
1969	6,253	38,025	18,305
1968	5,727	35,549	17,159
1967	5,241	32,492	15,930
1966	4,962	30,671	15,287
1965	4,647	27,958	14,347
1964	4,416	25,518	13,628
1963	4,173	23,444	12,913
1962	3,960	20,902	12,292

Based on sales data in Tables 38 and 39, page 43, and average number of customers per year. p Preliminary. r Revised.

Chart VI-D
AVERAGE KILOWATT-HOURS USED
TOTAL ELECTRIC UTILITY INDUSTRY



Based on Table 44, as shown above.

CUSTOMERS

SECTION VII

TABLE 47

ULTIMATE CUSTOMERS—TOTAL ELECTRIC UTILITY INDUSTRY

BY YEAR AND CLASS OF SERVICE AT DECEMBER 31st

Year	Total Ultimate Customers	Residential	Commercial*	Industrial*	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
1982p	**95,285,568**	**84,402,130**	**9,968,222**	**541,692**	**149,180**	**221,424**	**31**	**2,889**
1981r	94,011,299	83,304,355	9,847,260	516,996	141,051	197,187	31	4,419
1980	92,653,471	82,153,162	9,698,809	484,652	142,724	168,120	30	5,974
1979	89,771,985	79,620,180	9,386,572	477,874	124,228	158,098	30	5,003
1978	87,667,954	77,775,667	9,148,399	464,637	121,899	152,439	30	4,883
1977	85,590,212	75,923,145	8,943,732	448,009	120,594	149,934	28	4,770
1976	83,613,161	74,161,846	8,750,949	427,403	119,130	148,867	28	4,938
1975	81,844,890	72,570,187	8,591,108	414,665	116,555	147,387	29	4,959
1974	80,102,390	70,949,607	8,472,817	422,736	112,477	139,480	29	5,244
1973	78,461,251	69,438,429	8,361,847	413,383	108,787	133,619	46	5,140
1972	76,150,204	67,314,000	8,200,033	369,952	103,874	157,461	50	4,834
1971	74,265,071	65,650,046	8,002,572	355,967	96,252	155,414	48	4,772
1970	72,484,978	64,017,662	7,865,073	352,993	92,052	152,706	47	4,445
1969	70,929,138	62,598,910	7,744,851	348,648	86,678	145,071	49	4,931
1968	69,716,013	61,439,030	7,706,779	333,650	86,023	146,257	64	4,210
1967	68,167,525	60,033,404	7,579,626	324,222	82,445	143,870	65	3,893
1966	66,909,793	58,826,283	7,536,066	316,098	85,197	141,703	65	4,381
1965	65,557,520	57,596,016	7,419,956	309,615	84,925	141,532	66	5,410
1964	64,148,656	56,307,195	7,293,997	318,168	83,729	139,549	83	5,935
1963	62,857,451	55,073,055	7,232,065	320,732	79,816	145,184	117	6,482
1962	61,323,917	53,649,362	6,980,960	441,394	79,363	167,053	118	5,667

*Commercial and Industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another.
p Preliminary. r Revised.

TABLE 48
ULTIMATE CUSTOMERS—INVESTOR-OWNED ELECTRIC UTILITIES
BY YEAR AND CLASS OF SERVICE AT DECEMBER 31st

Year	Total Ultimate Customers	Residential	Commercial*	Industrial*	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-depart-mental
1982p	**72,979,327**	**64,648,932**	**7,694,575**	**385,613**	**113,251**	**136,484**	**23**	**449**
1981r	72,037,264	63,820,699	7,579,344	389,646	112,061	135,049	23	442
1980	70,996,563	62,902,588	7,459,959	375,540	123,589	134,595	23	269
1979	69,581,540	61,676,402	7,290,125	372,407	108,149	134,171	23	263
1978	67,922,975	60,216,110	7,106,705	364,123	106,286	129,496	23	232
1977	66,294,706	58,770,646	6,942,201	349,563	105,442	126,611	21	222
1976	64,896,400	57,530,599	6,805,345	329,522	103,754	126,674	22	484
1975	63,650,468	56,409,122	6,690,374	322,429	101,937	126,100	23	483
1974	62,667,061	55,499,145	6,624,061	326,409	97,438	119,531	23	454
1973	61,435,986	54,370,297	6,531,953	324,236	94,682	114,315	24	479
1972	59,804,431	52,868,920	6,422,032	284,733	90,206	138,052	25	463
1971	58,204,164	51,415,155	6,294,907	274,329	86,714	132,573	25	461
1970	56,888,819	50,210,348	6,194,383	270,132	83,443	130,036	24	453
1969	55,714,225	49,134,168	6,111,945	265,331	78,903	123,399	25	454
1968	54,680,477	48,140,270	6,078,790	258,848	78,950	123,136	40	443
1967	53,560,415	47,115,644	5,994,228	255,375	75,419	119,263	41	445
1966	52,567,765	46,151,524	5,981,208	248,267	71,394	114,918	41	413
1965	51,505,592	45,166,904	5,911,683	242,818	68,421	115,303	43	420
1964	50,405,817	44,157,062	5,818,820	250,755	65,684	113,031	60	405
1963	49,312,316	43,141,839	5,739,739	252,250	60,631	117,387	65	405
1962	48,324,445	42,241,005	5,564,867	344,900	58,168	115,037	68	400

*Commercial and Industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another.
p Preliminary. r Revised.

TABLE 49
CUSTOMERS IN PERCENT OF TOTAL—TOTAL ELECTRIC UTILITY INDUSTRY
BY YEAR AND CLASS OF SERVICE AT DECEMBER 31st

Year	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways*	inter-depart-mental*
1982p	**88.6%**	**10.5%**	**0.6%**	**0.1%**	**0.2%**	**0.0%**	**0.0%**
1981r	88.6	10.5	0.5	0.2	0.2	0.0	0.0
1980	88.7	10.5	0.5	0.1	0.2	0.0	0.0
1979	88.7	10.5	0.5	0.1	0.2	0.0	0.0
1978	88.7	10.5	0.5	0.1	0.2	0.0	0.0
1977	88.7	10.5	0.5	0.1	0.2	0.0	0.0
1976	88.7	10.5	0.5	0.1	0.2	0.0	0.0
1975	88.7	10.5	0.5	0.1	0.2	0.0	0.0
1974	88.6	10.6	0.5	0.1	0.2	0.0	0.0
1973	88.5	10.7	0.5	0.1	0.2	0.0	0.0
1972	88.4	10.8	0.5	0.1	0.2	0.0	0.0
1971	88.4	10.8	0.5	0.1	0.2	0.0	0.0
1970	88.3	10.9	0.5	0.1	0.2	0.0	0.0
1969	88.3	10.9	0.5	0.1	0.2	0.0	0.0
1968	88.1	11.1	0.5	0.1	0.2	0.0	0.0
1967	88.1	11.1	0.5	0.1	0.2	0.0	0.0
1966	87.9	11.3	0.5	0.1	0.2	0.0	0.0
1965	87.9	11.3	0.5	0.1	0.2	0.0	0.0
1964	87.8	11.4	0.5	0.1	0.2	0.0	0.0
1963	87.7	11.5	0.5	0.1	0.2	0.0	0.0
1962	87.5	11.4	0.7	0.1	0.3	0.0	0.0

*Less than one-tenth of one percent. p Preliminary. r Revised.
Based on customer data in Table 47.

TABLE 50A
ULTIMATE CUSTOMERS—TOTAL ELECTRIC UTILITY INDUSTRY
BY STATE AND CLASS OF SERVICE AT DECEMBER 31, 1982p

Division/State	Total Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**95,285,568**	**84,402,130**	**9,968,222**	**541,692**	**149,180**	**221,424**	**31**	**2,889**
Maine	536,319	476,695	57,287	845	1,046	336	—	110
New Hampshire	427,592	373,926	47,683	1,586	1,832	2,565	—	—
Vermont	244,469	215,856	24,596	1,141	289	2,582	—	5
Massachusetts	2,257,741	2,022,580	212,681	11,162	6,771	4,518	1	28
Rhode Island	380,602	342,898	34,387	2,487	781	49	—	—
Connecticut	1,261,910	1,146,525	106,971	4,818	3,292	252	1	51
New England	**5,108,633**	**4,578,480**	**483,605**	**22,039**	**14,011**	**10,302**	**2**	**194**
New York	6,525,320	5,792,248	662,545	46,374	9,336	14,807	5	5
New Jersey	2,899,162	2,560,768	318,865	12,521	7,006	—	1	1
Pennsylvania	4,751,493	4,257,853	455,525	30,648	6,250	1,211	4	2
Middle Atlantic	**14,175,975**	**12,610,869**	**1,436,935**	**89,543**	**22,592**	**16,018**	**10**	**8**
Ohio	4,343,545	3,916,153	383,453	26,670	6,488	10,766	2	13
Indiana	2,261,169	2,028,212	208,332	20,229	2,424	1,969	1	2
Illinois	4,525,349	4,109,621	393,799	7,115	2,664	12,145	2	3
Michigan	3,701,567	3,360,143	321,744	13,668	2,211	3,798	—	3
Wisconsin	2,038,730	1,831,043	197,733	4,669	3,379	1,869	—	37
East North Central	**16,870,360**	**15,245,172**	**1,505,061**	**72,351**	**17,166**	**30,547**	**5**	**58**
Minnesota	1,718,643	1,543,240	160,045	8,540	2,485	4,318	—	15
Iowa	1,273,666	1,114,120	147,274	5,299	1,009	5,963	—	1
Missouri	2,140,991	1,900,638	217,947	10,991	2,487	8,855	1	72
North Dakota	294,350	251,048	38,262	3,301	428	1,308	—	3
South Dakota	310,537	268,656	37,876	2,001	337	1,666	—	1
Nebraska	828,906	677,826	139,721	2,625	1,323	7,406	1	4
Kansas	1,092,258	934,587	143,220	11,241	1,198	2,007	—	5
West North Central	**7,659,351**	**6,690,115**	**884,345**	**43,998**	**9,267**	**31,523**	**2**	**101**
Delaware	248,062	226,316	20,729	669	127	220	—	1
Maryland and D.C.	1,761,500	1,588,956	166,554	5,132	746	108	3	1
Virginia	2,113,925	1,897,567	188,819	4,450	1,703	21,384	1	1
West Virginia	810,428	716,727	82,776	9,408	993	521	—	3
North Carolina	2,556,387	2,237,648	293,537	13,600	6,852	4,728	—	22
South Carolina	1,320,802	1,164,965	144,593	5,025	2,510	3,695	—	14
Georgia	2,307,072	2,078,079	203,860	16,542	2,891	5,699	1	—
Florida	5,009,135	4,469,844	508,222	17,444	3,966	9,655	—	4
South Atlantic	**16,127,311**	**14,380,102**	**1,609,090**	**72,270**	**19,788**	**46,010**	**5**	**46**
Kentucky	1,484,573	1,317,757	144,270	8,537	4,331	9,676	—	2
Tennessee	1,943,468	1,733,855	188,970	18,437	494	1,711	—	1
Alabama	1,637,175	1,448,905	175,415	9,436	744	2,628	—	47
Mississippi	1,023,773	897,036	114,694	7,740	486	3,817	—	—
East South Central	**6,088,989**	**5,397,553**	**623,349**	**44,150**	**6,055**	**17,832**	**—**	**50**
Arkansas	1,016,594	892,817	101,774	16,166	547	5,289	1	—
Louisiana	1,728,848	1,531,555	168,401	17,073	2,256	9,561	—	2
Oklahoma	1,462,664	1,272,062	164,207	15,453	1,112	9,830	—	—
Texas	6,236,436	5,391,196	755,379	60,995	3,271	25,476	—	119
West South Central	**10,444,542**	**9,087,630**	**1,189,761**	**109,687**	**7,186**	**50,156**	**1**	**121**
Montana	383,380	325,390	52,672	3,216	1,451	434	—	217
Idaho	440,583	374,230	63,949	1,786	556	62	—	—
Wyoming	234,470	198,930	32,732	2,500	199	106	—	3
Colorado	1,354,822	1,179,387	167,793	5,236	633	1,458	—	315
New Mexico	551,838	472,228	72,012	6,160	173	1,203	—	62
Arizona	1,262,281	1,116,766	131,834	8,117	2,896	2,427	1	240
Utah	542,111	484,965	47,905	7,060	1,953	222	—	6
Nevada	380,382	331,547	40,254	8,103	133	344	—	1
Mountain	**5,149,867**	**4,483,443**	**609,151**	**42,178**	**7,994**	**6,256**	**1**	**844**
Washington	1,878,340	1,668,278	189,752	6,568	8,595	5,141	1	5
Oregon	1,225,858	1,062,389	159,618	2,271	1,207	366	—	7
California	10,083,721	8,790,481	1,218,678	34,812	32,788	5,571	3	1,388
Pacific	**13,187,919**	**11,521,148**	**1,568,048**	**43,651**	**42,590**	**11,078**	**4**	**1,400**
Alaska	160,044	137,238	18,879	1,102	1,055	1,702	1	67
Hawaii	312,577	270,380	39,998	723	1,476	—	—	—
Alaska & Hawaii	**472,621**	**407,618**	**58,877**	**1,825**	**2,531**	**1,702**	**1**	**67**

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TABLE 50B
ULTIMATE CUSTOMERS—TOTAL ELECTRIC UTILITY INDUSTRY
BY STATE AND CLASS OF SERVICE AT DECEMBER 31, 1981r

Division/State	Total Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**94,011,299**	**83,304,355**	**9,847,260**	**516,996**	**141,051**	**197,187**	**31**	**4,419**
Maine	528,641	469,685	56,770	846	1,052	231	—	57
New Hampshire	420,473	368,271	47,444	1,637	1,532	1,589	—	—
Vermont	247,700	219,200	25,081	1,064	201	2,148	—	6
Massachusetts	2,245,105	2,013,590	211,416	10,725	5,487	3,858	1	28
Rhode Island	376,681	339,272	34,124	2,469	767	49	—	—
Connecticut	1,249,887	1,135,896	105,929	4,770	2,999	244	1	48
New England	**5,068,487**	**4,545,914**	**480,764**	**21,511**	**12,038**	**8,119**	**2**	**139**
New York	6,475,332	5,747,437	656,884	46,299	9,522	15,147	5	38
New Jersey	2,876,404	2,538,844	318,439	12,769	6,348	—	1	3
Pennsylvania	4,719,719	4,227,875	454,099	30,652	6,107	973	4	9
Middle Atlantic	**14,071,455**	**12,514,156**	**1,429,422**	**89,720**	**21,977**	**16,120**	**10**	**50**
Ohio	4,340,915	3,914,053	384,712	25,380	6,138	10,512	2	118
Indiana	2,234,436	2,004,490	206,716	19,310	2,306	1,599	1	14
Illinois	4,532,884	4,116,859	395,922	5,954	2,776	11,360	2	11
Michigan	3,720,806	3,371,441	329,225	14,262	2,245	3,550	—	83
Wisconsin	2,020,124	1,815,456	195,408	3,920	3,374	1,838	—	128
East North Central	**16,849,165**	**15,222,299**	**1,511,983**	**68,826**	**16,839**	**28,859**	**5**	**354**
Minnesota	1,706,491	1,532,031	159,348	7,739	2,932	4,378	—	63
Iowa	1,264,102	1,105,938	146,774	4,682	1,027	5,593	—	88
Missouri	2,136,711	1,899,814	217,661	9,809	2,408	6,926	1	92
North Dakota	289,083	247,636	37,778	2,186	534	944	—	5
South Dakota	304,561	263,335	38,361	1,474	310	1,069	—	12
Nebraska	774,182	643,308	121,109	1,965	1,097	6,532	1	170
Kansas	1,069,225	918,535	137,573	9,818	1,219	2,058	—	22
West North Central	**7,544,355**	**6,610,597**	**858,604**	**37,673**	**9,527**	**27,500**	**2**	**452**
Delaware	243,838	222,597	20,349	658	124	109	—	1
Maryland and D.C.	1,739,508	1,568,745	165,326	4,585	743	102	3	4
Virginia	2,086,358	1,875,508	185,322	4,048	1,664	19,761	1	54
West Virginia	803,661	711,532	81,606	9,077	944	497	—	5
North Carolina	2,517,115	2,204,249	289,541	13,041	6,472	3,762	—	50
South Carolina	1,297,381	1,141,733	145,105	4,158	2,767	3,437	—	181
Georgia	2,257,185	2,032,543	204,716	14,734	1,789	3,379	1	23
Florida	4,875,995	4,353,973	486,448	22,721	3,967	8,825	—	61
South Atlantic	**15,821,041**	**14,110,880**	**1,578,413**	**73,022**	**18,470**	**39,872**	**5**	**379**
Kentucky	1,483,161	1,319,570	143,576	7,399	4,133	8,466	—	17
Tennessee	1,915,394	1,711,247	184,184	17,771	1,313	868	—	11
Alabama	1,628,874	1,442,225	175,495	8,729	967	1,407	—	51
Mississippi	1,001,039	876,785	113,878	6,698	689	2,985	—	4
East South Central	**6,028,468**	**5,349,827**	**617,133**	**40,597**	**7,102**	**13,726**	**—**	**83**
Arkansas	1,037,621	911,852	105,617	15,334	547	4,266	1	4
Louisiana	1,701,100	1,506,951	166,927	16,413	2,184	8,598	—	27
Oklahoma	1,427,943	1,245,045	160,000	13,464	1,078	8,346	—	10
Texas	5,992,361	5,178,747	730,631	57,154	2,927	22,747	—	155
West South Central	**10,159,025**	**8,842,595**	**1,163,175**	**102,365**	**6,736**	**43,957**	**1**	**196**
Montana	378,937	321,477	52,631	2,724	1,546	312	—	247
Idaho	434,748	369,509	62,417	2,295	463	62	—	2
Wyoming	232,018	195,150	34,513	1,888	285	156	—	26
Colorado	1,325,371	1,158,757	157,917	5,950	816	1,498	—	433
New Mexico	540,319	462,604	71,358	5,195	136	981	—	45
Arizona	1,136,775	1,006,176	121,213	5,173	2,144	2,057	1	11
Utah	528,458	471,537	47,665	7,338	1,643	263	—	12
Nevada	370,589	322,769	39,325	8,088	193	213	—	1
Mountain	**4,947,215**	**4,307,979**	**587,039**	**38,651**	**7,226**	**5,542**	**1**	**777**
Washington	1,850,531	1,642,078	190,714	6,142	5,844	5,727	1	25
Oregon	1,233,149	1,057,545	170,666	1,792	2,702	365	—	79
California	9,973,533	8,699,442	1,200,334	35,408	30,366	6,169	3	1,811
Pacific	**13,057,213**	**11,399,065**	**1,561,714**	**43,342**	**38,912**	**12,261**	**4**	**1,915**
Alaska	156,888	134,576	19,679	590	737	1,231	1	74
Hawaii	307,987	266,467	39,334	699	1,487	—	—	—
Alaska & Hawaii	**464,875**	**401,043**	**59,013**	**1,289**	**2,224**	**1,231**	**1**	**74**

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TABLE 51A
ULTIMATE CUSTOMERS—INVESTOR-OWNED ELECTRIC UTILITIES
BY STATE AND CLASS OF SERVICE AT DECEMBER 31, 1982p

Division/State	Total Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**72,979.327**	**64,648,932**	**7,694,575**	**385,613**	**113,251**	**136,484**	**23**	**449**
Maine	511,499	455,005	54,667	709	1,032	86	—	—
New Hampshire	372,964	327,476	42,333	1,373	1,253	529	—	—
Vermont	189,356	167,308	18,956	697	266	2,129	—	—
Massachusetts	1,973,243	1,769,388	189,492	7,711	4,406	2,245	1	—
Rhode Island	377,591	340,103	34,191	2,468	780	49	—	—
Connecticut	1,206,785	1,097,913	101,111	4,671	3,089	—	1	—
New England	**4,631,438**	**4,157,193**	**440,750**	**17,629**	**10,826**	**5,038**	**2**	**—**
New York	6,381,933	5,665,817	647,240	45,349	9,134	14,386	4	3
New Jersey	2,851,638	2,518,097	314,194	12,370	6,975	—	1	1
Pennsylvania	4,527,826	4,049,789	441,906	29,715	5,921	489	4	2
Middle Atlantic	**13,761,397**	**12,233,703**	**1,403,340**	**87,434**	**22,030**	**14,875**	**9**	**6**
Ohio	3,841,836	3,458,905	344,770	23,299	5,633	9,215	2	12
Indiana	1,710,392	1,519,577	171,393	16,237	2,192	990	1	2
Illinois	4,155,061	3,768,800	368,259	4,978	2,562	10,457	2	3
Michigan	3,324,034	3,015,124	293,967	11,301	2,142	1,498	—	2
Wisconsin	1,690,577	1,513,199	170,592	2,343	3,321	1,099	—	23
East North Central	**14,721,900**	**13,275,605**	**1,348,981**	**58,158**	**15,850**	**23,259**	**5**	**42**
Minnesota	1,049,346	928,631	110,678	5,216	1,859	2,960	—	2
Iowa	920,779	794,048	119,021	2,651	844	4,214	—	1
Missouri	1,434,474	1,259,275	162,179	6,477	2,100	4,397	—	46
North Dakota	189,722	159,706	27,713	1,338	394	569	—	2
South Dakota	164,712	139,074	24,554	383	280	420	—	1
Nebraska	—	—	—	—	—	—	—	—
Kansas	705,389	620,202	76,727	7,434	839	186	—	1
West North Central	**4,464,422**	**3,900,936**	**520,872**	**23,499**	**6,316**	**12,746**	**—**	**53**
Delaware	183,167	165,898	16,706	445	117	—	—	1
Maryland and D.C.	1,645,723	1,483,287	157,480	4,173	733	46	3	1
Virginia	1,770,224	1,585,559	160,581	3,248	1,664	19,171	1	—
West Virginia	802,634	709,934	81,874	9,381	946	496	—	3
North Carolina	1,744,564	1,503,831	224,225	9,408	5,623	1,459	—	18
South Carolina	827,684	712,999	107,753	3,277	2,143	1,498	—	14
Georgia	1,365,038	1,204,618	146,049	12,122	1,694	554	1	—
Florida	3,843,412	3,437,737	379,007	15,100	3,551	8,014	—	3
South Atlantic	**12,182,446**	**10,803,863**	**1,273,675**	**57,154**	**16,471**	**31,238**	**5**	**40**
Kentucky	878,792	763,813	99,467	4,304	3,944	7,262	—	2
Tennessee	34,646	31,034	3,332	123	113	44	—	—
Alabama	1,001,693	878,892	117,976	4,202	622	—	—	1
Mississippi	476,298	407,491	62,631	3,547	435	2,194	—	—
East South Central	**2,391,429**	**2,081,230**	**283,406**	**12,176**	**5,114**	**9,500**	**—**	**3**
Arkansas	634,106	547,551	68,933	14,172	481	2,969	—	—
Louisiana	1,324,061	1,168,043	131,420	14,961	2,054	7,581	—	2
Oklahoma	1,001,320	874,021	106,784	11,972	1,044	7,499	—	—
Texas	4,513,138	3,908,425	534,203	49,305	2,376	18,828	—	1
West South Central	**7,472,625**	**6,498,040**	**841,340**	**90,410**	**5,955**	**36,877**	**—**	**3**
Montana	283,479	240,697	38,554	2,446	1,436	131	—	215
Idaho	360,341	305,453	52,931	1,416	502	39	—	—
Wyoming	154,228	130,153	21,714	2,130	145	83	—	3
Colorado	890,512	790,287	97,562	1,806	461	372	—	24
New Mexico	382,817	335,699	42,284	3,831	83	898	—	22
Arizona	685,869	600,039	79,674	4,201	985	970	—	—
Utah	418,372	376,469	34,515	5,967	1,378	40	—	3
Nevada	357,624	313,522	36,080	7,875	133	14	—	—
Mountain	**3,533,242**	**3,092,319**	**403,314**	**29,672**	**5,123**	**2,547**	**—**	**267**
Washington	829,559	743,172	81,973	3,045	1,369	—	—	—
Oregon	942,606	825,523	114,721	1,297	991	68	—	6
California	7,723,352	6,756,927	940,456	4,369	21,533	37	1	29
Pacific	**9,495,517**	**8,325,622**	**1,137,150**	**8,711**	**23,893**	**105**	**1**	**35**
Alaska	12,334	10,041	1,749	47	197	299	1	—
Hawaii	312,577	270,380	39,998	723	1,476	—	—	—
Alaska & Hawaii	**324,911**	**280,421**	**41,747**	**770**	**1,673**	**299**	**1**	**—**

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TABLE 51B
ULTIMATE CUSTOMERS—INVESTOR-OWNED ELECTRIC UTILITIES
BY STATE AND CLASS OF SERVICE AT DECEMBER 31, 1981r

Division/State	Total Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**72,037,264**	**63,820,599**	**7,579,344**	**389,646**	**112,061**	**135,049**	**23**	**442**
Maine	504,481	448,333	54,026	724	1,310	88	—	—
New Hampshire	367,068	322,795	41,073	1,482	1,103	615	—	—
Vermont	191,184	169,338	19,076	711	181	1,878	—	—
Massachusetts	1,951,303	1,749,336	187,547	7,780	4,159	2,480	1	—
Rhode Island	373,736	336,562	33,920	2,465	756	33	—	—
Connecticut	1,195,360	1,087,699	100,182	4,697	2,781	—	1	—
New England	**4,583,132**	**4,114,063**	**435,824**	**17,859**	**10,290**	**5,094**	**2**	**—**
New York	6,336,114	5,625,387	642,054	45,122	9,149	14,395	4	3
New Jersey	2,826,871	2,494,702	313,533	12,303	6,331	—	1	1
Pennsylvania	4,501,413	4,024,785	440,177	29,993	5,866	585	4	3
Middle Atlantic	**13,664,398**	**12,144,874**	**1,395,764**	**87,418**	**21,346**	**14,980**	**9**	**7**
Ohio	3,830,086	3,449,131	343,489	22,411	5,675	9,368	2	10
Indiana	1,706.196	1,515,131	171,763	16,175	2,157	967	1	2
Illinois	4,143,234	3,759,004	366,168	4,845	2,719	10,493	2	3
Michigan	3,319,160	3,011,687	292,722	11,206	2,031	1,512	—	2
Wisconsin	1,674,904	1,500,484	167,721	2,389	3,207	1,080	—	23
East North Central	**14,673,580**	**13,235,437**	**1,341,863**	**57,026**	**15,789**	**23,420**	**5**	**40**
Minnesota	1,041,174	921,663	108,404	5,138	3,049	2,918	—	2
Iowa	920,786	794,236	118,797	2,672	856	4,224	—	1
Missouri	1,439,560	1,264,369	161,889	6,871	2,038	4,348	—	45
North Dakota	186,226	157,504	26,441	1,191	521	567	—	2
South Dakota	162,487	137,160	24,299	378	274	376	—	—
Nebraska	—	—	—	—	—	—	—	—
Kansas	697,546	613,646	75,562	6,820	992	514	—	12
West North Central	**4,447,779**	**3,888,578**	**515,392**	**23,070**	**7,730**	**12,947**	**—**	**62**
Delaware	180,518	163,550	16,383	467	117	—	—	1
Maryland and D.C.	1,621,504	1,463,160	153,526	4,029	739	46	3	1
Virginia	1,745,202	1,563,918	158,159	3,233	1,598	18,293	1	—
West Virginia	795,982	704,797	80,715	9,077	918	470	—	5
North Carolina	1,713,093	1,474,783	221,781	9,268	5,507	1,733	—	21
South Carolina	817,368	703,169	107,297	3,205	2,130	1,554	—	13
Georgia	1,334,601	1,177,450	142,963	12,079	1,592	516	1	—
Florida	3,719,825	3,326,586	361,771	20,695	3,474	7,289	—	10
South Atlantic	**11,928,093**	**10,577,413**	**1,242,595**	**62,053**	**16,075**	**29,901**	**5**	**51**
Kentucky	871,216	758,521	97,564	4,174	3,800	7,155	—	2
Tennessee	34,294	30,700	3,308	122	116	48	—	—
Alabama	995,032	873,294	117,071	4,055	611	—	—	1
Mississippi	471,197	402,871	62,132	3,659	429	2,106	—	—
East South Central	**2,371,739**	**2,065,386**	**280,075**	**12,010**	**4,956**	**9,309**	**—**	**3**
Arkansas	643,683	555,546	70,570	14,156	493	2,918	—	—
Louisiana	1,301,043	1,147,508	128,814	15,236	2,046	7,437	—	2
Oklahoma	976,940	855,508	102,130	11,141	1,035	7,126	—	—
Texas	4,306,767	3,727,879	509,775	47,790	2,350	18,972	—	1
West South Central	**7,228,433**	**6,286,441**	**811,289**	**88,323**	**5,924**	**36,453**	**—**	**3**
Montana	280,485	238,162	38,204	2,449	1,352	136	—	182
Idaho	357,597	303,348	51,808	1,893	507	41	—	—
Wyoming	152,115	126,982	22,771	2,058	218	77	—	9
Colorado	854,854	764,615	85,434	3,905	436	441	—	23
New Mexico	374,554	329,212	40,706	3,711	85	807	—	33
Arizona	675,916	591,282	78,636	4,155	938	905	—	—
Utah	409,531	367,539	33,857	6,634	1,385	113	—	3
Nevada	346,426	303,817	34,561	7,866	155	27	—	—
Mountain	**3,451,478**	**3,024,957**	**385,977**	**32,671**	**5,076**	**2,547**	**—**	**250**
Washington	816,815	729,474	82,767	3,209	1,365	—	—	—
Oregon	943,650	819,543	121,562	1,315	1,161	63	—	6
California	7,607,157	6,657,276	925,133	3,965	20,725	37	1	20
Pacific	**9,367,622**	**8,206,293**	**1,129,462**	**8,489**	**23,251**	**100**	**1**	**26**
Alaska	13,023	10,790	1,769	28	137	298	1	—
Hawaii	307,987	266,467	39,334	699	1,487	—	—	—
Alaska & Hawaii	**321,010**	**277,257**	**41,103**	**727**	**1,624**	**298**	**1**	**—**

r Revised.

TABLE 52A
AVERAGE NUMBER OF CUSTOMERS—TOTAL ELECTRIC UTILITY INDUSTRY
BY STATE AND CERTAIN CLASS OF SERVICE—YEAR 1982p

Division/State	Total Ultimate Customers	Residential	Commercial
Total United States	**94,662,625**	**83,856,449**	**9,889,491**
Maine	531,796	472,058	57,390
New Hampshire	425,664	372,453	47,276
Vermont	242,740	214,454	24,207
Massachusetts	2,256,563	2,020,026	213,139
Rhode Island	378,682	341,270	34,096
Connecticut	1,256,721	1,141,547	106,778
New England	**5,092,166**	**4,561,808**	**482,886**
New York	6,499,038	5,769,167	659,110
New Jersey	2,891,776	2,554,283	318,425
Pennsylvania	4,740,638	4,247,554	454,797
Middle Atlantic	**14,131,452**	**12,571,004**	**1,432,332**
Ohio	4,339,562	3,912,808	383,267
Indiana	2,258,417	2,025,478	208,537
Illinois	4,522,120	4,107,184	392,884
Michigan	3,695,636	3,355,402	320,583
Wisconsin	2,028,893	1,823,221	195,765
East North Central	**16,844,628**	**15,224,093**	**1,501,036**
Minnesota	1,713,744	1,539,064	159,412
Iowa	1,271,312	1,112,318	146,824
Missouri	2,135,932	1,896,566	216,936
North Dakota	293,134	250,331	37,763
South Dakota	310,383	268,492	37,890
Nebraska	827,098	676,807	138,982
Kansas	1,088,195	931,344	142,364
West North Central	**7,639,798**	**6,674,922**	**880,171**
Delaware	246,386	224,959	20,398
Maryland and D.C.	1,748,554	1,577,226	165,406
Virginia	2,096,500	1,882,403	186,871
West Virginia	806,173	713,511	82,043
North Carolina	2,547,835	2,229,043	293,651
South Carolina	1,316,541	1,160,869	144,410
Georgia	2,292,799	2,065,934	201,703
Florida	4,928,091	4,397,024	499,996
South Atlantic	**15,982,879**	**14,250,969**	**1,594,478**
Kentucky	1,482,655	1,316,839	143,521
Tennessee	1,943,295	1,733,719	188,947
Alabama	1,631,948	1,444,499	174,630
Mississippi	1,021,434	894,895	114,472
East South Central	**6,079,332**	**5,389,952**	**621,570**
Arkansas	1,014,839	889,321	101,815
Louisiana	1,716,521	1,521,708	166,107
Oklahoma	1,451,426	1,263,644	161,773
Texas	6,127,898	5,298,147	740,858
West South Central	**10,310,684**	**8,972,820**	**1,170,553**
Montana	381,663	323,017	52,154
Idaho	436,646	372,030	61,179
Wyoming	238,735	196,825	37,468
Colorado	1,356,429	1,174,302	174,411
New Mexico	546,931	468,048	71,274
Arizona	1,237,361	1,093,864	129,854
Utah	537,166	480,124	47,420
Nevada	375,981	328,032	39,097
Mountain	**5,110,912**	**4,436,242**	**612,857**
Washington	1,847,192	1,640,042	187,113
Oregon	1,199,436	1,047,276	148,206
California	9,954,752	8,682,747	1,199,592
Pacific	**13,001,380**	**11,370,065**	**1,534,911**
Alaska	158,829	136,098	18,804
Hawaii	310,565	268,476	39,893
Alaska & Hawaii	**469,394**	**404,574**	**58,697**

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TABLE 52B
AVERAGE NUMBER OF CUSTOMERS—TOTAL ELECTRIC UTILITY INDUSTRY
BY STATE AND CERTAIN CLASS OF SERVICE—YEAR 1981r

Division/State	Total Ultimate Customers	Residential	Commercial
Total United States	**93,401,118**	**82,770,545**	**9,769,270**
Maine	524,183	465,114	56,872
New Hampshire	418,557	366,820	47,039
Vermont	245,931	217,776	24,684
Massachusetts	2,243,891	2,011,047	211,871
Rhode Island	374,780	337,661	33,835
Connecticut	1,244,749	1,130,964	105,738
New England	**5,052,091**	**4,529,382**	**480,039**
New York	6,449,262	5,724,535	653,478
New Jersey	2,869,132	2,532,415	318,000
Pennsylvania	4,708,930	4,217,649	453,373
Middle Atlantic	**14,027,324**	**12,474,599**	**1,424,851**
Ohio	4,336,954	3,910,710	384,525
Indiana	2,231,725	2,001,788	206,919
Illinois	4,529,597	4,114,418	395,002
Michigan	3,714,831	3,366,684	328,037
Wisconsin	2,010,380	1,807,701	193,463
East North Central	**16,823,487**	**15,201,301**	**1,507,946**
Minnesota	1,701,629	1,527,885	158,718
Iowa	1,261,776	1,104,149	146,326
Missouri	2,131,656	1,895,744	216,651
North Dakota	287,908	246,929	37,285
South Dakota	304,411	263,174	38,375
Nebraska	772,530	642,341	120,468
Kansas	1,065,311	915,348	136,751
West North Central	**7,525,221**	**6,595,570**	**854,574**
Delaware	242,190	221,262	20,024
Maryland and D.C.	1,726,726	1,557,164	164,186
Virginia	2,069,169	1,860,520	183,410
West Virginia	799,450	708,339	80,883
North Carolina	2,508,700	2,195,772	289,656
South Carolina	1,293,200	1,137,719	144,921
Georgia	2,243,149	2,020,664	202,550
Florida	4,797,368	4,283,041	478,574
South Atlantic	**15,679,952**	**13,984,481**	**1,564,204**
Kentucky	1,481,269	1,318,651	142,831
Tennessee	1,915,204	1,711,113	184,162
Alabama	1,623,667	1,437,839	174,710
Mississippi	998,749	874,692	113,658
East South Central	**6,018,889**	**5,342,295**	**615,361**
Arkansas	1,035,709	908,281	105,660
Louisiana	1,688,962	1,497,262	164,653
Oklahoma	1,417,001	1,236,806	157,628
Texas	5,888,032	5,089,365	716,586
West South Central	**10,029,704**	**8,731,714**	**1,144,527**
Montana	377,090	319,133	52,113
Idaho	431,198	367,337	59,713
Wyoming	236,392	193,085	39,507
Colorado	1,326,662	1,153,761	164,145
New Mexico	535,502	458,509	70,627
Arizona	1,114,287	985,542	119,393
Utah	523,671	466,830	47,182
Nevada	366,304	319,347	38,195
Mountain	**4,911,106**	**4,263,544**	**590,875**
Washington	1,819,796	1,614,285	188,062
Oregon	1,206,156	1,042,501	158,464
California	9,845,695	8,592,824	1,181,535
Pacific	**12,871,647**	**11,249,610**	**1,528,061**
Alaska	155,692	133,458	19,601
Hawaii	306,005	264,591	39,231
Alaska & Hawaii	**461,697**	**398,049**	**58,832**

r Revised.

TABLE 53A
AVERAGE NUMBER OF CUSTOMERS—INVESTOR-OWNED ELECTRIC UTILITIES
BY STATE AND CERTAIN CLASSES OF SERVICE—YEAR 1982p

Division/State	Total Ultimate Customers	Residential	Commercial
Total United States	**72,524,039**	**64,239,125**	**7,647,129**
Maine	506,974	450,367	54,769
New Hampshire	371,035	326,002	41,926
Vermont	187,626	165,905	18,567
Massachusetts	1,972,426	1,767,150	189,990
Rhode Island	375,671	338,475	33,900
Connecticut	1,201,737	1,093,066	100,939
New England	**4,615,469**	**4,140,965**	**440,091**
New York	6,355,727	5,642,715	643,905
New Jersey	2,844,284	2,511,658	313,743
Pennsylvania	4,516,969	4,039,490	441,177
Middle Atlantic	**13,716,980**	**12,193,863**	**1,398,825**
Ohio	3,837,851	3,455,559	344,584
Indiana	1,707,603	1,516,793	171,612
Illinois	4,151,851	3,766,389	367,338
Michigan	3,318,304	3,010,551	292,842
Wisconsin	1,680,753	1,505,388	168,629
East North Central	**14,696,362**	**13,254,680**	**1,345,005**
Minnesota	1,044,390	924,415	110,027
Iowa	918,423	792,245	118,570
Missouri	1,429,635	1,255,279	161,319
North Dakota	188,505	158,989	27,213
South Dakota	164,557	138,910	24,567
Nebraska	—	—	—
Kansas	700,913	616,580	75,837
West North Central	**4,446,423**	**3,886,418**	**517,533**
Delaware	181,489	164,541	16,374
Maryland and D.C.	1,632,775	1,471,556	156,332
Virginia	1,753,145	1,570,548	158,828
West Virginia	798,378	706,718	81,140
North Carolina	1,736,414	1,495,574	224,395
South Carolina	823,422	708,903	107,570
Georgia	1,350,764	1,192,473	143,892
Florida	3,765,911	3,367,692	371,548
South Atlantic	**12,042,298**	**10,678,005**	**1,260,079**
Kentucky	876,870	762,894	98,717
Tennessee	34,473	30,898	3,309
Alabama	996,597	874,590	117,213
Mississippi	473,955	405,348	62,409
East South Central	**2,381,895**	**2,073,730**	**281,648**
Arkansas	632,349	544,054	68,973
Louisiana	1,311,734	1,158,196	129,126
Oklahoma	990,081	865,602	104,350
Texas	4,417,453	3,826,065	521,821
West South Central	**7,351,617**	**6,393,917**	**824,270**
Montana	281,762	238,324	38,036
Idaho	356,402	303,253	50,160
Wyoming	154,885	130,354	22,198
Colorado	894,053	786,800	104,511
New Mexico	377,909	331,519	41,546
Arizona	672,772	588,275	78,375
Utah	413,427	371,628	34,030
Nevada	353,222	310,006	34,923
Mountain	**3,504,432**	**3,060,159**	**403,779**
Washington	823,375	735,923	83,072
Oregon	940,497	821,593	116,441
California	7,681,792	6,721,355	934,744
Pacific	**9,445,664**	**8,278,871**	**1,134,257**
Alaska	12,334	10,041	1,749
Hawaii	310,565	268,476	39,893
Alaska & Hawaii	**322,899**	**278,517**	**41,642**

p Preliminary.

TABLE 53B
AVERAGE NUMBER OF CUSTOMERS—INVESTOR-OWNED ELECTRIC UTILITIES
BY STATE AND CERTAIN CLASS OF SERVICE—YEAR 1981r

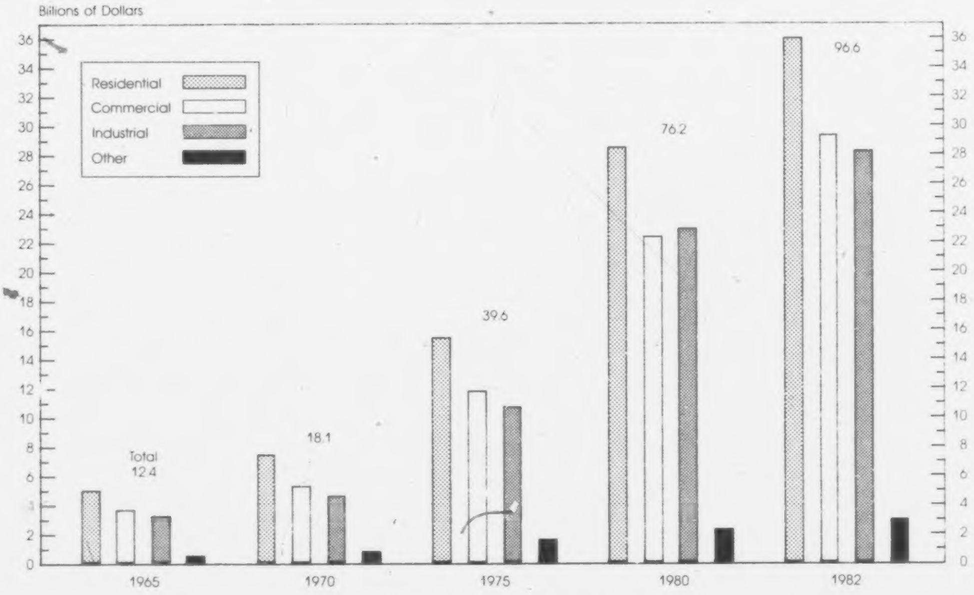
Division/State	Total Ultimate Customers	Residential	Commercial
Total United States	**71,595,509**	**63,420,743**	**7,535,014**
Maine	499,751	443,763	54,127
New Hampshire	365,297	321,342	40,679
Vermont	189,428	167,918	18,685
Massachusetts	1,949,646	1,747,123	188,040
Rhode Island	371,846	334,951	33,631
Connecticut	1,190,364	1,082,898	100,012
New England	**4,566,332**	**4,097,995**	**435,174**
New York	6,310,100	5,602,450	638,746
New Jersey	2,819,622	2,488,323	313,083
Pennsylvania	4,490,633	4,014,550	439,451
Middle Atlantic	**13,620,355**	**12,105,323**	**1,391,280**
Ohio	3,826,128	3,445,794	343,304
Indiana	1,703,418	1,512,355	171,983
Illinois	4,139,703	3,756,600	365,252
Michigan	3,313,441	3,007,119	291,602
Wisconsin	1,665,180	1,492,739	165,791
East North Central	**14,647,870**	**13,214,607**	**1,337,932**
Minnesota	1,036,261	917,479	107,766
Iowa	918,430	792,433	118,347
Missouri	1,435,300	1,260,941	161,031
North Dakota	185,061	156,797	25,964
South Dakota	162,334	136,998	24,312
Nebraska	—	—	—
Kansas	693,603	610,062	74,686
West North Central	**4,430,989**	**3,874,710**	**512,106**
Delaware	178,866	162,212	16,057
Maryland and D.C.	1,610,992	1,451,588	154,653
Virginia	1,728,366	1,549,112	156,432
West Virginia	791,770	701,604	79,991
North Carolina	1,705,100	1,466,686	221,950
South Carolina	813,167	699,130	107,115
Georgia	1,320,643	1,165,579	140,852
Florida	3,645,138	3,258,806	354,651
South Atlantic	**11,794,042**	**10,454,717**	**1,231,701**
Kentucky	869,322	757,608	96,828
Tennessee	34,122	30,565	3,285
Alabama	989,970	869,019	116,314
Mississippi	468,883	400,752	61,912
East South Central	**2,362,297**	**2,057,944**	**278,339**
Arkansas	641,866	551,990	70,611
Louisiana	1,288,933	1,137,834	126,565
Oklahoma	966,010	847,267	99,802
Texas	4,215,477	3,649,324	497,959
West South Central	**7,112,286**	**6,186,415**	**794,937**
Montana	278,794	235,814	37,691
Idaho	354,079	301,163	49,096
Wyoming	152,795	127,178	23,279
Colorado	857,674	761,241	91,519
New Mexico	369,756	325,113	39,996
Arizona	663,010	579,690	77,354
Utah	404,761	362,813	33,381
Nevada	342,190	300,410	33,453
Mountain	**3,423,059**	**2,993,422**	**385,769**
Washington	810,776	722,359	83,877
Oregon	942,239	815,641	123,385
California	7,566,236	6,622,229	919,514
Pacific	**9,319,251**	**8,160,229**	**1,126,776**
Alaska	13,023	10,790	1,769
Hawaii	306,005	264,591	39,231
Alaska & Hawaii	**319,028**	**275,381**	**41,000**

r Revised.

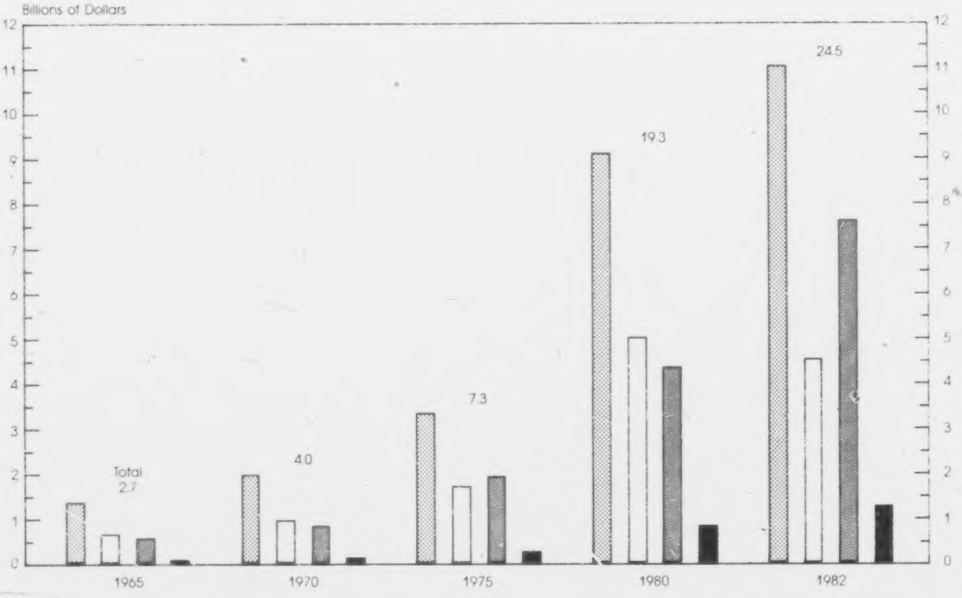
REVENUES
SECTION VIII

Chart VIII-A
REVENUE FROM ULTIMATE CUSTOMERS

INVESTOR-OWNED UTILITIES



NON-INVESTOR-OWNED UTILITIES



Based on Tables 56 and 57, on page 63.

TABLE 56
REVENUES—TOTAL ELECTRIC UTILITY INDUSTRY
BY YEAR AND CLASS OF SERVICE
THOUSANDS OF DOLLARS

Year	Total Revenue from Sales†	Exports to Canada and Mexico	Total from Ultimate Customers	Residential	Commercial*	Industrial*	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Interdepartmental
1982p	**$121,140,010**	**$13,012**	**$121,126,998**	**$47,030,734**	**$33,913,416**	**$35,897,792**	**$1,250,318**	**$2,574,111**	**$291,751**	**$168,876**
1981r	110,621,610	26,838	110,594,772	42,403,545	31,325,322	33,030,093	1,168,691	2,247,307	253,065	166,749
1980	95,505,802	43,421	95,462,381	37,580,892	27,369,963	27,316,770	1,041,008	1,811,065	207,683	135,000
1979	79,649,846	9,609	79,640,237	30,798,693	22,264,356	23,825,487	918,157	1,517,333	188,628	127,583
1978	69,865,806	12,862	69,852,944	27,381,419	19,714,364	20,280,391	849,677	1,350,439	170,123	106,531
1977	62,629,713	19,684	62,610,029	24,687,500	18,021,548	17,629,321	776,771	1,245,155	145,680	104,054
1976	53,480,659	17,795	53,462,864	21,149,590	15,236,104	14,999,522	724,436	1,112,247	163,840	77,125
1975	46,864,685	11,229	46,853,456	18,803,156	13,486,624	12,707,490	659,332	975,799	159,160	61,895
1974	39,133,322	6,517	39,126,805	15,702,853	11,196,960	10,673,464	573,164	780,010	146,112	54,242
1973	31,668,281	5,422	31,662,859	13,194,773	9,147,188	8,073,636	491,831	620,991	91,903	42,537
1972	27,927,681	6,611	27,921,070	11,729,833	8,041,052	6,983,891	449,831	593,267	85,300	37,896
1971	24,735,122	9,963	24,725,159	10,483,526	7,071,971	6,133,964	411,534	512,772	77,862	33,530
1970	22,076,885	11,023	22,065,862	9,415,707	6,290,225	5,429,852	377,791	453,104	69,169	30,014
1969	20,144,225	4,876	20,139,349	8,532,729	5,704,764	5,044,857	350,563	417,571	62,981	25,884
1968	18,585,368	5,489	18,579,879	7,802,033	5,315,100	4,672,211	327,196	379,435	61,440	22,464
1967	17,226,235	3,515	17,222,720	7,183,908	4,935,911	4,364,759	307,272	349,323	60,609	20,938
1966	16,199,140	3,004	16,196,136	6,733,714	4,649,084	4,134,538	281,584	321,001	59,132	17,083
1965	15,162,538	4,159	15,158,379	6,328,756	4,312,859	3,884,748	262,569	290,892	60,903	17,652
1964	14,413,138	4,680	14,408,458	6,040,681	4,028,198	3,733,369	248,225	278,319	61,702	17,964
1963	13,708,178	10,972	13,697,206	5,722,544	3,788,316	3,596,121	236,448	275,030	61,749	16,998
1962	13,033,989	9,045	13,024,944	5,457,614	3,420,013	3,591,097	223,445	255,815	63,255	13,705

† Excludes other electric revenues.

* Commercial and Industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another.

p Preliminary. r Revised.

TABLE 57
REVENUES—INVESTOR-OWNED ELECTRIC UTILITIES
BY YEAR AND CLASS OF SERVICE
THOUSANDS OF DOLLARS

Year	Total Revenues	Other Revenues†	Total from Ultimate Customers	Residential	Commercial*	Industrial*	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Interdepartmental
1982p	**$102,106,036**	**$5,460,375**	**$96,645,661**	**$36,006,078**	**$29,370,853**	**$28,272,019**	**$1,002,670**	**$1,775,560**	**$130,174**	**$88,307**
1981r	94,266,325	5,497,327	88,768,998	32,622,129	26,370,929	26,986,678	933,861	1,641,632	120,124	93,645
1980	80,635,823	4,460,469	76,175,354	28,492,402	22,351,012	22,970,668	819,762	1,362,136	111,552	67,822
1979	68,151,992	4,274,055	63,877,937	23,613,621	18,463,690	19,801,718	716,209	1,137,987	80,002	64,710
1978	61,298,846	3,683,472	57,615,374	21,623,578	16,784,764	17,379,313	682,895	1,016,671	74,772	53,381
1977	55,141,656	3,364,784	51,776,872	19,541,802	15,404,917	15,092,313	632,154	964,452	90,263	50,971
1976	47,079,734	2,599,312	44,480,422	16,920,314	13,137,482	12,688,950	612,674	935,116	150,173	35,713
1975	41,855,398	2,285,281	39,570,117	15,434,811	11,766,583	10,785,231	558,554	841,853	157,539	25,546
1974	34,970,201	1,784,436	33,185,765	12,881,369	9,737,585	9,243,172	485,472	670,971	144,837	22,359
1973	27,525,926	1,208,947	26,316,979	10,590,178	7,807,644	6,875,953	412,921	522,826	90,753	16,704
1972	24,132,546	1,011,942	23,120,604	9,359,949	6,832,630	5,950,367	378,413	502,910	84,144	12,191
1971	21,230,373	835,581	20,394,792	8,308,330	6,016,096	5,199,601	347,972	435,949	76,701	10,143
1970	18,830,214	722,994	18,107,220	7,424,224	5,314,447	4,591,093	319,373	381,405	68,030	8,648
1969	17,163,515	647,843	16,515,672	6,722,985	4,804,558	4,274,968	296,028	347,078	61,855	8,200
1968	15,809,534	577,493	15,232,041	6,142,073	4,471,545	3,961,473	276,010	313,231	60,295	7,414
1967	14,568,786	513,147	14,055,639	5,639,111	4,125,734	3,679,635	258,324	286,898	59,358	6,579
1966	13,772,851	488,777	13,284,074	5,308,626	3,906,604	3,497,745	240,978	266,626	58,006	5,489
1965	12,886,621	450,470	12,436,151	4,972,016	3,627,566	3,297,495	226,297	247,918	59,772	5,087
1964	12,211,203	428,384	11,782,819	4,728,561	3,366,885	3,173,671	213,703	234,522	60,554	4,923
1963	11,576,560	403,007	11,173,553	4,483,310	3,156,425	3,037,825	202,198	228,045	60,764	4,986
1962	10,971,558	378,476	10,593,082	4,244,163	2,841,601	3,036,987	191,298	212,161	62,875	3,997

† Includes revenue from sales to non-investor-owned electric utilities, from exports and other electric revenues.

* Commercial and Industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another.

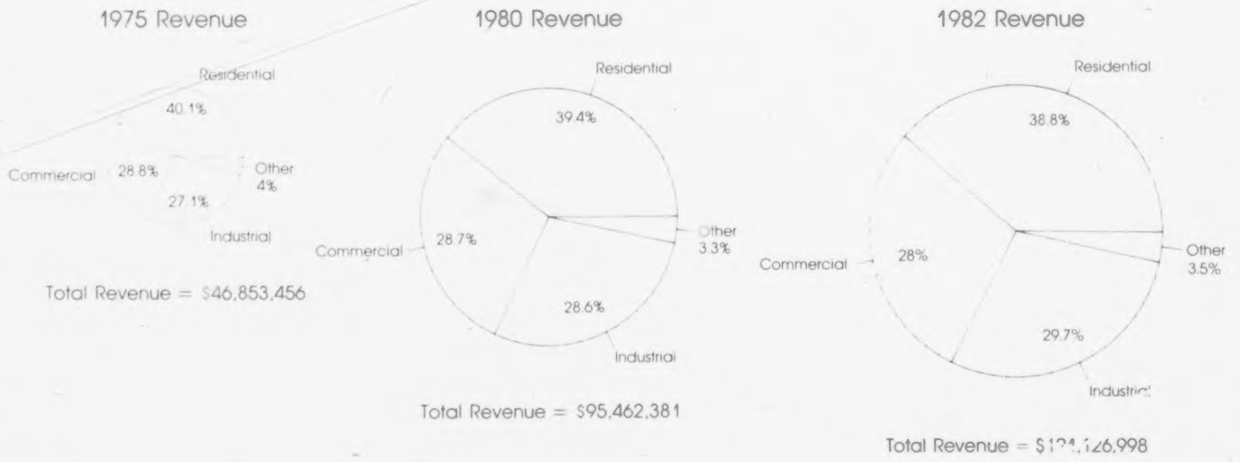
p Preliminary. r Revised.

TABLE 58
REVENUES IN PERCENT OF TOTAL—TOTAL ELECTRIC UTILITY INDUSTRY
BY YEAR AND CLASS OF SERVICE

Year	Residential	Commercial	Industrial	Street & Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
1982p	**38.8%**	**28.0%**	**29.7%**	**1.0%**	**2.1%**	**0.2%**	**0.2%**
1981r	38.3	28.3	29.9	1.1	2.0	0.2	0.2
1980	39.4	28.7	28.6	1.1	1.9	0.2	0.1
1979	38.7	28.0	29.9	1.1	1.9	0.2	0.2
1978	39.2	28.2	29.0	1.2	1.9	0.3	0.2
1977	39.4	28.8	28.2	1.2	2.0	0.2	0.2
1976	39.6	28.5	28.0	1.4	2.1	0.3	0.1
1975	40.1	28.8	27.1	1.4	2.1	0.4	0.1
1974	40.1	28.6	27.3	1.5	2.0	0.4	0.1
1973	41.6	28.9	25.5	1.6	2.0	0.3	0.1
1972	42.0	28.8	25.0	1.6	2.1	0.3	0.2
1971	42.4	28.6	24.8	1.7	2.1	0.3	0.1
1970	42.7	28.5	24.6	1.7	2.1	0.3	0.1
1969	42.4	28.3	25.0	1.8	2.1	0.3	0.1
1968	42.0	28.6	25.2	1.8	2.0	0.3	0.1
1967	41.7	28.7	25.3	1.8	2.0	0.4	0.1
1966	41.6	28.7	25.5	1.7	2.0	0.4	0.1
1965	41.8	28.5	25.6	1.7	1.9	0.4	0.1
1964	41.9	28.0	25.9	1.7	1.9	0.4	0.2
1963	41.8	27.7	26.2	1.7	2.0	0.5	0.1
1962	41.9	26.2	27.6	1.7	2.0	0.5	0.1

Based on revenue data in Table 56. p Preliminary. r Revised.

Chart VIII-B
REVENUE
BY YEAR AND CLASS OF SERVICE
TOTAL ELECTRIC UTILITY INDUSTRY
THOUSANDS OF DOLLARS



Based on Table 58, as shown above.

TABLE 59A
REVENUES—TOTAL ELECTRIC UTILITY INDUSTRY
BY STATE AND CLASS OF SERVICE
YEAR 1982p—THOUSANDS OF DOLLARS

Division/State	Total from Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**$121,126,998**	**$47,030,734**	**$33,913,416**	**$35,897,792**	**$1,250,318**	**$2,574,111**	**$291,751**	**$168,876**
Maine	496,891	211,484	113,433	156,717	8,559	6,567	—	131
New Hampshire	475,980	216,979	93,993	154,410	7,390	3,208	—	—
Vermont	236,640	111,438	43,796	67,379	2,028	11,961	—	38
Massachusetts	2,636,596	1,012,733	977,092	551,725	19,194	39,419	6,408	25
Rhode Island	391,667	157,227	130,261	90,406	6,232	7,541	—	—
Connecticut	1,732,797	717,348	590,224	393,432	29,403	1,762	40	588
New England	**5,970,571**	**2,427,209**	**1,948,799**	**1,414,069**	**102,806**	**70,458**	**6,448**	**782**
New York	8,918,346	3,019,233	3,459,198	1,641,831	139,039	486,060	170,578	2,407
New Jersey	4,242,245	1,557,294	1,522,265	1,097,340	63,223	—	414	1,709
Pennsylvania	6,059,111	2,280,640	1,426,138	2,216,283	75,475	10,265	45,928	4,382
Middle Atlantic	**19,219,702**	**6,857,167**	**6,407,601**	**4,955,454**	**277,737**	**496,325**	**216,920**	**8,498**
Ohio	5,468,531	2,093,686	1,301,613	1,860,115	45,236	163,687	3,187	1,007
Indiana	2,788,105	1,098,240	513,791	1,136,956	27,005	7,692	1,076	3,345
Illinois	5,992,767	2,149,271	1,888,106	1,588,878	37,165	310,752	18,400	195
Michigan	3,764,220	1,323,690	991,329	1,391,917	45,023	7,020	—	5,241
Wisconsin	2,136,049	913,495	569,131	597,236	32,133	19,520	—	4,534
East North Central	**20,149,672**	**7,578,382**	**5,263,970**	**6,575,102**	**186,562**	**508,671**	**22,663**	**14,322**
Minnesota	1,764,944	755,181	292,490	674,348	18,935	23,305	—	685
Iowa	1,364,319	622,640	332,190	373,444	17,320	18,688	—	37
Missouri	2,111,909	958,510	669,723	417,214	21,361	43,469	709	923
North Dakota	298,921	149,242	60,606	78,127	926	9,921	—	99
South Dakota	257,665	144,586	68,387	36,340	2,639	5,713	—	—
Nebraska	742,163	329,315	242,010	138,378	10,576	20,740	468	676
Kansas	1,267,743	499,295	427,738	315,277	13,168	12,090	—	175
West North Central	**7,807,664**	**3,458,769**	**2,093,144**	**2,033,128**	**84,925**	**133,926**	**1,177**	**2,595**
Delaware	392,998	155,360	106,092	128,250	2,525	155	—	616
Maryland and D.C.	2,531,879	915,510	791,935	756,056	42,302	4,817	19,225	2,034
Virginia	2,825,369	1,275,530	732,445	552,799	21,883	238,735	1,216	2,761
West Virginia	898,689	345,713	199,897	346,432	4,930	1,683	—	34
North Carolina	3,294,566	1,475,690	783,640	970,870	22,360	41,784	—	222
South Carolina	1,918,307	770,907	398,276	719,106	7,908	21,767	—	343
Georgia	2,871,177	1,218,500	721,233	896,809	18,862	12,479	3,294	—
Florida	6,270,602	3,264,575	2,001,620	786,052	63,207	147,774	—	7,374
South Atlantic	**21,003,587**	**9,421,785**	**5,735,138**	**5,156,374**	**183,977**	**469,194**	**23,735**	**13,384**
Kentucky	2,128,046	699,130	307,635	1,021,033	10,395	89,304	—	549
Tennessee	3,220,525	1,153,890	263,902	1,750,278	20,493	5,948	—	26,014
Alabama	2,451,363	984,955	443,882	1,003,366	11,834	3,257	—	4,069
Mississippi	1,315,053	579,136	284,684	418,992	9,558	22,683	—	—
East South Central	**9,114,987**	**3,417,111**	**1,300,103**	**4,193,669**	**52,280**	**121,192**	**—**	**30,632**
Arkansas	1,112,542	519,825	228,088	335,321	6,689	22,341	278	—
Louisiana	2,871,384	1,071,244	573,906	1,068,117	18,412	86,672	—	53,033
Oklahoma	1,748,261	752,174	441,849	394,727	7,626	151,885	—	—
Texas	11,074,236	4,172,790	2,838,536	3,770,759	71,478	203,058	—	17,615
West South Central	**16,806,423**	**6,516,033**	**4,082,379**	**5,568,924**	**104,205**	**463,956**	**278**	**70,648**
Montana	291,288	113,509	70,837	101,320	2,910	2,253	—	459
Idaho	442,353	176,254	126,830	135,202	3,948	119	—	—
Wyoming	282,133	73,745	57,700	146,742	1,217	2,548	—	181
Colorado	1,236,974	472,392	511,294	219,570	21,941	10,487	—	1,290
New Mexico	656,104	207,620	209,245	195,589	5,221	33,951	—	4,478
Arizona	1,690,550	671,033	567,942	400,489	16,245	28,703	1,397	4,741
Utah	623,874	228,564	172,131	192,475	6,252	24,422	—	30
Nevada	533,361	209,330	118,668	191,880	4,925	8,547	—	11
Mountain	**5,756,637**	**2,152,447**	**1,834,647**	**1,583,267**	**62,659**	**111,030**	**1,397**	**11,190**
Washington	1,643,917	694,897	377,531	537,310	14,769	18,333	418	659
Oregon	1,190,997	484,408	359,952	333,008	11,166	1,836	—	627
California	11,536,541	3,711,534	4,277,139	3,188,920	160,410	164,702	18,685	15,151
Pacific	**14,371,455**	**4,890,839**	**5,014,622**	**4,059,238**	**186,345**	**184,871**	**19,103**	**16,437**
Alaska	205,669	89,453	56,188	43,001	2,121	14,488	30	388
Hawaii	720,631	221,539	176,825	315,566	6,701	—	—	—
Alaska & Hawaii	**926,300**	**310,992**	**233,013**	**358,567**	**8,822**	**14,488**	**30**	**388**

p Preliminary.

TABLE 59B

REVENUES—TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND CLASS OF SERVICE
YEAR 1981r—THOUSANDS OF DOLLARS

Division/State	Total from Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-depart-mental
Total United States	**$110,594,772**	**$42,403,545**	**$31,325,322**	**$33,030,093**	**$1,168,691**	**$2,247,307**	**$253,065**	**$166,749**
Maine	490,190	207,979	110,478	155,523	7,934	8,161	—	115
New Hampshire	491,624	216,925	97,784	165,957	7,252	3,706	—	—
Vermont	215,146	102,603	39,684	59,599	2,065	11,122	—	73
Massachusetts	2,715,195	1,025,540	981,702	616,285	50,787	30,828	5,083	4,970
Rhode Island	413,795	162,487	136,280	101,662	6,119	7,247	—	—
Connecticut	1,632,620	669,121	528,808	404,009	27,790	2,202	32	658
New England	**5,958,570**	**2,384,655**	**1,894,736**	**1,503,035**	**101,947**	**63,266**	**5,115**	**5,816**
New York	8,442,410	2,859,408	3,271,353	1,625,393	120,991	429,974	132,952	2,339
New Jersey	3,903,763	1,443,273	1,358,671	1,042,279	57,434	15	473	1,618
Pennsylvania	5,508,897	1,998,965	1,223,726	2,163,865	66,016	10,219	42,105	4,001
Middle Atlantic	**17,855,070**	**6,301,646**	**5,853,750**	**4,831,537**	**244,441**	**440,208**	**175,530**	**7,958**
Ohio	5,408,913	1,988,535	1,302,514	1,921,608	44,994	146,435	2,664	2,163
Indiana	2,471,481	957,326	465,792	1,017,039	22,336	6,381	939	1,668
Illinois	5,468,340	1,932,434	1,704,426	1,514,649	34,592	265,242	16,619	378
Michigan	3,744,199	1,314,049	943,296	1,387,883	41,395	53,340	—	4,236
Wisconsin	1,848,851	769,311	515,206	516,752	28,582	16,343	—	2,657
East North Central	**18,941,784**	**6,961,655**	**4,931,234**	**6,357,931**	**171,899**	**487,741**	**20,222**	**11,102**
Minnesota	1,623,735	675,861	293,610	622,060	16,144	15,261	—	799
Iowa	1,268,795	566,273	310,342	359,538	15,162	17,148	—	332
Missouri	1,925,198	870,387	619,621	382,140	19,436	31,925	689	1,000
North Dakota	253,506	125,856	68,063	51,087	2,265	6,105	—	130
South Dakota	239,158	130,722	73,905	28,412	2,416	3,642	—	61
Nebraska	633,296	279,431	221,803	105,822	9,495	15,200	514	1,031
Kansas	1,110,678	429,028	386,300	273,506	10,884	10,788	—	172
West North Central	**7,054,366**	**3,077,558**	**1,973,644**	**1,822,565**	**75,802**	**100,069**	**1,203**	**3,525**
Delaware	375,216	136,317	91,756	127,942	18,579	68	—	554
Maryland and D.C.	2,330,000	834,922	736,254	699,276	38,934	2,703	16,401	1,510
Virginia	2,588,134	1,190,508	701,277	457,530	20,372	215,179	1,255	2,013
West Virginia	810,900	308,493	172,895	323,543	4,302	1,475	—	192
North Carolina	2,842,650	1,318,913	656,082	814,519	17,527	34,811	—	798
South Carolina	1,704,792	708,107	359,400	602,633	6,933	27,368	—	351
Georgia	2,516,593	1,071,292	673,647	744,743	15,712	8,603	2,518	78
Florida	6,265,729	3,249,072	1,835,211	981,023	56,672	137,896	—	5,855
South Atlantic	**19,434,014**	**8,817,624**	**5,226,522**	**4,751,209**	**179,031**	**428,103**	**20,174**	**11,351**
Kentucky	1,983,866	657,836	401,783	803,504	10,548	109,575	—	620
Tennessee	2,865,664	1,054,535	231,578	1,536,667	29,987	3,291	—	9,606
Alabama	2,330,069	901,187	405,549	1,003,057	13,741	2,223	—	4,312
Mississippi	1,258,216	548,230	293,127	383,790	10,728	21,769	—	572
East South Central	**8,437,815**	**3,161,788**	**1,332,037**	**3,727,018**	**65,004**	**136,858**	**—**	**15,110**
Arkansas	641,596	46,768	217,274	338,447	6,271	17,858	14,978	—
Louisiana	2,740,659	1,016,937	553,006	1,014,183	19,132	79,198	—	58,203
Oklahoma	1,458,198	644,496	403,994	333,068	6,208	70,406	—	26
Texas	9,282,422	3,439,512	2,440,921	3,173,497	61,406	155,726	—	11,360
West South Central	**14,122,875**	**5,147,713**	**3,615,195**	**4,859,195**	**93,017**	**323,188**	**14,978**	**69,589**
Montana	247,217	99,707	67,431	75,337	2,743	1,624	—	375
Idaho	414,773	152,793	125,992	132,399	3,110	453	—	26
Wyoming	255,039	67,529	90,397	94,085	1,171	1,633	—	224
Colorado	1,089,173	406,216	434,091	215,257	18,392	13,970	—	1,247
New Mexico	587,393	181,491	212,207	158,544	4,644	27,475	—	3,032
Arizona	1,603,514	647,937	541,856	361,081	13,035	29,245	2,017	8,343
Utah	558,012	206,872	168,298	158,284	7,106	17,378	—	74
Nevada	453,193	172,676	100,667	166,323	4,148	9,264	—	115
Mountain	**5,208,314**	**1,935,221**	**1,740,939**	**1,361,310**	**54,349**	**101,042**	**2,017**	**13,436**
Washington	1,261,582	576,081	319,155	339,176	11,797	14,628	310	435
Oregon	1,083,420	472,330	318,689	280,315	10,625	1,074	—	387
California	10,353,165	3,270,759	3,871,200	2,876,126	151,561	142,358	13,465	27,696
Pacific	**12,698,167**	**4,319,170**	**4,509,044**	**3,495,617**	**173,983**	**158,060**	**13,775**	**28,518**
Alaska	185,612	81,248	73,853	19,414	1,930	8,772	51	344
Hawaii	698,185	215,267	174,368	301,262	7,288	—	—	—
Alaska & Hawaii	**883,797**	**296,515**	**248,221**	**320,676**	**9,218**	**8,772**	**51**	**344**

r Revised.

TABLE 60A
REVENUES—INVESTOR-OWNED ELECTRIC UTILITIES
BY STATE AND CLASS OF SERVICE
YEAR 1982p—THOUSANDS OF DOLLARS

Division/State	Total from Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**$96,645,661**	**$36,006,078**	**$29,370,853**	**$28,272,019**	**$1,002,670**	**$1,775,560**	**$130,174**	**$88,307**
Maine	481,487	202,269	110,902	153,828	8,370	6,118	—	—
New Hampshire	436,209	191,664	87,159	147,257	7,255	2,874	—	—
Vermont	193,530	87,381	36,114	57,686	1,687	10,662	—	—
Massachusetts	2,309,997	875,530	911,850	448,629	46,581	20,999	6,408	—
Rhode Island	389,716	155,928	130,014	90,035	6,198	7,541	—	—
Connecticut	1,673,260	700,081	576,914	367,628	28,597	—	40	—
New England	**5,484,199**	**2,212,853**	**1,852,953**	**1,265,063**	**98,688**	**48,194**	**6,448**	—
New York	8,214,315	2,989,451	3,442,397	1,517,418	77,695	171,330	13,922	2,102
New Jersey	4,193,895	1,533,034	1,514,297	1,081,761	62,680	—	414	1,709
Pennsylvania	5,900,847	2,165,150	1,409,150	2,194,380	72,444	9,413	45,928	4,382
Middle Atlantic	**18,309,057**	**6,687,635**	**6,365,844**	**4,793,559**	**212,819**	**180,743**	**60,264**	**8,193**
Ohio	5,001,076	1,817,255	1,227,665	1,761,175	43,417	147,501	3,187	876
Indiana	2,341,737	821,021	461,648	1,025,819	23,104	5,724	1,076	3,345
Illinois	5,570,323	1,924,502	1,779,218	1,509,224	36,263	302,521	18,400	195
Michigan	3,503,431	1,182,935	917,756	1,319,191	41,510	37,931	—	4,108
Wisconsin	1,823,727	731,726	536,384	508,449	28,863	17,082	—	1,223
East North Central	**18,240,294**	**6,477,439**	**4,922,671**	**6,123,858**	**173,157**	**510,759**	**22,663**	**9,747**
Minnesota	1,203,062	389,245	196,419	585,834	14,836	16,532	—	196
Iowa	1,044,790	414,130	285,199	315,538	14,516	15,370	—	37
Missouri	1,554,448	627,294	567,607	323,148	18,244	17,994	—	161
North Dakota	187,137	87,277	46,342	48,845	904	3,670	—	99
South Dakota	151,422	70,711	54,400	22,396	2,280	1,635	—	—
Nebraska	—	—	—	—	—	—	—	—
Kansas	811,575	327,270	270,039	200,841	10,838	2,456	—	131
West North Central	**4,952,434**	**1,915,927**	**1,420,006**	**1,496,602**	**61,618**	**57,657**	—	**624**
Delaware	318,933	117,477	90,045	108,270	2,525	—	—	616
Maryland and D.C.	2,405,495	839,561	773,380	729,267	41,152	876	19,225	2,034
Virginia	2,494,787	1,078,642	686,052	473,631	20,210	235,036	1,216	—
West Virginia	894,369	343,050	198,731	345,944	4,928	1,682	—	34
North Carolina	2,513,660	1,014,363	653,382	813,573	1,729	30,417	—	196
South Carolina	1,365,133	491,988	316,535	533,372	6,541	16,354	—	343
Georgia	2,149,634	701,296	671,594	752,579	17,189	3,682	3,294	—
Florida	4,825,125	2,494,379	1,573,110	577,213	46,018	128,455	—	5,950
South Atlantic	**16,967,136**	**7,080,756**	**4,962,829**	**4,333,849**	**140,292**	**416,502**	**23,735**	**9,173**
Kentucky	1,012,299	380,149	252,608	283,813	8,536	86,643	—	550
Tennessee	48,454	22,420	11,260	13,329	275	1,170	—	—
Alabama	1,558,126	578,290	371,581	600,218	7,946	—	—	91
Mississippi	729,197	272,711	215,622	214,863	7,367	18,634	—	—
East South Central	**3,348,076**	**1,253,570**	**851,071**	**1,112,223**	**24,124**	**106,447**	—	**641**
Arkansas	788,899	323,345	181,432	260,186	5,369	18,567	—	—
Louisiana	2,463,713	805,049	498,921	1,008,694	17,454	80,562	—	53,033
Oklahoma	1,207,792	504,928	338,599	290,090	7,300	66,875	—	—
Texas	9,066,590	3,243,135	2,334,728	3,264,064	57,890	165,986	—	787
West South Central	**13,526,994**	**4,876,457**	**3,353,680**	**4,823,034**	**88,013**	**331,990**	—	**53,820**
Montana	190,166	76,368	57,809	51,537	2,870	1,143	—	439
Idaho	386,513	150,376	106,160	127,046	2,861	70	—	—
Wyoming	162,855	41,371	35,449	84,319	1,217	324	—	175
Colorado	845,180	304,836	395,460	118,153	19,225	7,421	—	85
New Mexico	487,530	155,239	165,662	128,527	4,773	29,031	—	4,298
Arizona	993,522	365,746	366,997	236,175	11,123	12,879	—	602
Utah	518,857	193,320	142,304	158,911	6,252	18,046	—	24
Nevada	502,955	202,365	100,420	187,017	4,925	8,228	—	—
Mountain	**4,087,578**	**1,489,621**	**1,370,261**	**1,091,685**	**53,246**	**77,142**	—	**5,623**
Washington	626,406	334,405	205,553	79,348	7,000	—	—	—
Oregon	923,227	379,487	303,226	229,144	10,776	273	—	321
California	9,444,661	3,070,802	3,580,424	2,606,300	126,151	43,785	17,034	165
Pacific	**10,994,294**	**3,784,694**	**4,089,303**	**2,914,792**	**143,927**	**44,058**	**17,034**	**486**
Alaska	14,968	5,587	5,410	1,788	85	2,068	30	—
Hawaii	720,631	221,539	176,825	315,566	6,701	—	—	—
Alaska & Hawaii	**735,599**	**227,126**	**182,235**	**317,354**	**6,786**	**2,068**	**30**	—

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TABLE 60B
REVENUES—INVESTOR-OWNED ELECTRIC UTILITIES
BY STATE AND CLASS OF SERVICE
YEAR 1981r—THOUSANDS OF DOLLARS

Division/State	Total from Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**$88,768,998**	**$32,622,129**	**$26,370,929**	**$26,986,678**	**$933,861**	**$1,641,632**	**$120,124**	**$93,645**
Maine	474,167	198,790	107,114	152,724	7,731	7,808	—	—
New Hampshire	451,888	191,557	87,798	161,943	7,087	3,503	—	—
Vermont	170,797	78,603	31,806	49,091	1,677	9,620	—	—
Massachusetts	2,396,625	892,502	916,993	514,381	47,239	20,427	5,083	—
Rhode Island	411,835	161,214	136,038	101,282	6,066	7,235	—	—
Connecticut	1,553,769	646,514	511,483	368,962	26,778	—	32	—
New England	**5,459,081**	**2,169,180**	**1,791,232**	**1,348,383**	**96,578**	**48,593**	**5,115**	—
New York	7,883,508	2,830,123	3,252,124	1,539,031	71,963	168,464	19,787	2,016
New Jersey	3,855,027	1,419,575	1,350,296	1,025,998	57,072	—	473	1,613
Pennsylvania	5,361,959	1,895,917	1,203,372	2,142,539	64,405	9,659	42,105	3,962
Middle Atlantic	**17,100,494**	**6,145,615**	**5,805,792**	**4,707,568**	**193,440**	**178,123**	**62,365**	**7,591**
Ohio	4,980,937	1,729,007	1,222,300	1,851,692	42,133	132,226	2,664	915
Indiana	2,072,008	704,333	399,427	940,789	19,892	5,004	939	1,624
Illinois	5,097,528	1,726,388	1,592,673	1,467,701	33,467	260,602	16,619	78
Michigan	3,412,967	1,175,093	847,034	1,315,553	37,666	34,221	—	3,400
Wisconsin	1,573,013	606,999	467,473	458,125	25,257	14,223	—	936
East North Central	**17,136,453**	**5,941,820**	**4,528,907**	**6,033,860**	**158,415**	**446,276**	**20,222**	**6,953**
Minnesota	1,086,856	324,620	173,844	562,225	13,904	12,000	—	263
Iowa	970,703	375,319	262,061	306,042	13,493	13,754	—	34
Missouri	1,442,755	575,672	514,512	318,815	17,056	16,579	—	121
North Dakota	149,123	66,355	39,440	38,093	2,124	3,025	—	86
South Dakota	132,963	60,456	48,511	20,515	2,144	1,337	—	—
Nebraska	—	—	—	—	—	—	—	—
Kansas	740,459	282,482	246,090	195,146	9,783	6,823	—	135
West North Central	**4,522,859**	**1,684,904**	**1,284,458**	**1,440,836**	**58,504**	**53,518**	—	**639**
Delaware	293,159	102,065	77,870	110,413	2,257	—	—	554
Maryland and D.C.	2,209,400	761,768	705,667	685,014	38,201	881	16,401	1,468
Virginia	2,254,054	987,754	624,731	409,395	19,061	211,858	1,255	—
West Virginia	806,677	305,763	171,822	323,162	4,300	1,437	—	193
North Carolina	2,141,031	871,526	526,122	699,527	14,480	29,137	—	239
South Carolina	1,252,321	452,525	281,665	496,457	6,037	15,364	—	273
Georgia	1,825,803	608,657	545,591	651,370	14,154	3,513	2,518	—
Florida	4,893,746	2,510,114	1,462,659	746,418	44,060	126,177	—	4,318
South Atlantic	**15,676,191**	**6,600,172**	**4,396,127**	**4,121,756**	**142,550**	**388,367**	**20,174**	**7,045**
Kentucky	950,630	345,548	222,978	266,038	7,739	107,946	—	381
Tennessee	46,627	21,121	10,342	13,812	254	1,098	—	—
Alabama	1,452,907	533,268	328,094	583,932	7,532	—	—	81
Mississippi	720,273	263,879	202,331	227,760	7,066	19,237	—	—
East South Central	**3,170,437**	**1,163,816**	**763,745**	**1,091,542**	**22,591**	**128,281**	—	**462**
Arkansas	766,252	296,904	176,786	273,097	5,037	14,428	—	—
Louisiana	2,343,641	758,829	454,136	987,400	15,138	71,702	—	56,436
Oklahoma	1,043,388	420,858	290,330	267,654	5,987	58,559	—	—
Texas	7,551,979	2,614,046	1,921,908	2,825,047	50,202	140,081	—	695
West South Central	**11,705,260**	**4,090,637**	**2,843,160**	**4,353,198**	**76,364**	**284,770**	—	**57,131**
Montana	167,520	64,850	51,824	46,691	2,711	1,086	—	358
Idaho	367,666	129,031	108,192	127,863	2,497	83	—	—
Wyoming	126,918	31,182	27,568	66,633	1,036	305	—	194
Colorado	731,627	253,092	298,683	151,309	16,183	12,292	—	68
New Mexico	426,678	133,179	143,163	118,975	4,263	24,639	—	2,459
Arizona	943,950	357,118	327,860	235,272	8,629	15,071	—	—
Utah	465,853	174,914	128,188	143,041	5,691	13,994	—	25
Nevada	414,625	163,375	91,555	147,104	3,980	8,611	—	—
Mountain	**3,644,837**	**1,306,741**	**1,177,033**	**1,036,888**	**44,990**	**76,081**	—	**3,104**
Washington	539,708	287,434	175,833	70,627	5,814	—	—	—
Oregon	860,306	377,426	261,300	211,325	9,890	131	—	234
California	8,243,838	2,634,627	3,165,259	2,268,430	117,360	35,485	12,197	10,480
Pacific	**9,643,852**	**3,299,487**	**3,602,392**	**2,550,382**	**133,064**	**35,616**	**12,197**	**10,714**
Alaska	11,349	4,490	3,715	1,003	77	2,007	51	6
Hawaii	698,185	215,267	174,368	301,262	7,288	—	—	—
Alaska & Hawaii	**709,534**	**219,757**	**178,083**	**302,265**	**7,365**	**2,007**	**51**	**6**

r Revised.

TABLE 61
REVENUES—TOTAL ELECTRIC UTILITY INDUSTRY
BY QUARTER AND CLASS OF SERVICE
1977–1982—THOUSANDS OF DOLLARS

Year—Quarter	Total from Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
YEAR—1982p								
First Quarter	$ 30,198,689	$12,135,315	$ 8,150,041	$ 8,846,767	$ 317,095	$ 632,532	$ 72,685	44,254
Second Quarter ...	28,548,210	10,501,818	8,055,712	8,917,001	302,568	664,175	71,559	35,377
Third Quarter	33,161,170	13,267,201	9,426,392	9,341,964	297,524	703,563	80,494	44,032
Fourth Quarter	29,218,929	11,126,400	8,281,271	8,792,060	333,131	573,841	67,013	45,213
Total	**$121,126,998**	**$47,030,734**	**$33,913,416**	**$35,897,792**	**$1,250,318**	**$2,574,111**	**$291,751**	**$168,876**
YEAR—1981r								
First Quarter	$ 25,686,611	$10,110,046	$ 7,089,319	$ 7,546,365	$ 296,607	$ 544,260	$ 66,646	$ 33,368
Second Quarter ...	25,819,668	9,289,946	7,438,965	8,162,872	289,770	538,458	60,311	39,346
Third Quarter	31,858,386	12,784,247	9,067,498	8,996,668	289,742	612,061	59,943	48,227
Fourth Quarter	27,230,107	10,219,306	7,729,540	8,324,188	292,572	552,528	66,165	45,808
Total	**$110,594,772**	**$42,403,545**	**$31,325,322**	**$33,030,093**	**$1,168,691**	**$2,247,307**	**$253,065**	**$166,749**
YEAR—1980								
First Quarter	$ 22,255,055	$ 9,012,476	$ 6,139,359	$ 6,343,392	$ 248,705	$ 423,601	$ 52,174	$ 35,348
Second Quarter ...	21,956,565	8,176,526	6,380,759	6,636,811	255,417	430,125	49,864	27,063
Third Quarter	27,130,771	11,255,679	7,907,105	7,130,519	263,211	486,375	52,362	35,520
Fourth Quarter	24,119,990	9,136,211	6,942,740	7,206,048	273,675	470,964	53,283	37,069
Total	**$ 95,462,381**	**$37,580,892**	**$27,369,963**	**$27,316,770**	**$1,041,008**	**$1,811,065**	**$207,683**	**$135,000**
YEAR—1979								
First Quarter	$ 19,328,205	$ 7,927,947	$ 5,199,593	$ 5,540,983	$ 222,305	$ 357,596	$ 48,594	$ 31,187
Second Quarter ...	18,613,859	6,798,472	5,260,442	5,894,246	224,518	354,080	48,527	33,574
Third Quarter	21,702,136	8,592,823	6,189,947	6,217,460	229,159	398,763	43,570	30,414
Fourth Quarter	19,996,037	7,479,451	5,614,374	6,172,798	242,175	406,894	47,937	32,408
Total	**$ 79,640,237**	**$30,798,693**	**$22,264,356**	**$23,825,487**	**$ 918,157**	**$1,517,333**	**$188,628**	**$127,583**
YEAR—1978								
First Quarter	$ 16,947,807	$ 7,040,372	$ 4,660,507	$ 4,621,431	$ 208,507	$ 338,151	$ 48,769	$ 30,070
Second Quarter ...	16,356,651	6,072,539	4,662,337	5,026,512	204,415	323,760	37,984	29,104
Third Quarter	19,249,686	7,722,661	5,528,365	5,372,449	214,027	350,584	41,464	20,136
Fourth Quarter	17,298,800	6,545,847	4,863,155	5,259,999	222,728	337,944	41,906	27,221
Total	**$ 69,852,944**	**$27,381,419**	**$19,714,364**	**$20,280,391**	**$ 849,677**	**$1,350,439**	**$170,123**	**$106,531**
YEAR—1977								
First Quarter	$ 14,960,018	$ 6,224,101	$ 4,130,828	$ 4,043,509	$ 191,426	$ 305,239	$ 41,516	$ 23,399
Second Quarter ...	14,464,150	5,348,035	4,244,218	4,327,893	187,128	294,381	37,554	24,941
Third Quarter	17,563,408	7,150,893	5,135,241	4,692,794	193,518	333,935	31,976	25,051
Fourth Quarter	15,622,453	5,964,471	4,511,261	4,565,125	204,699	311,600	34,634	30,663
Total	**$ 62,610,029**	**$24,687,500**	**$18,021,548**	**$17,629,321**	**$ 776,771**	**$1,245,155**	**$145,680**	**$104,054**

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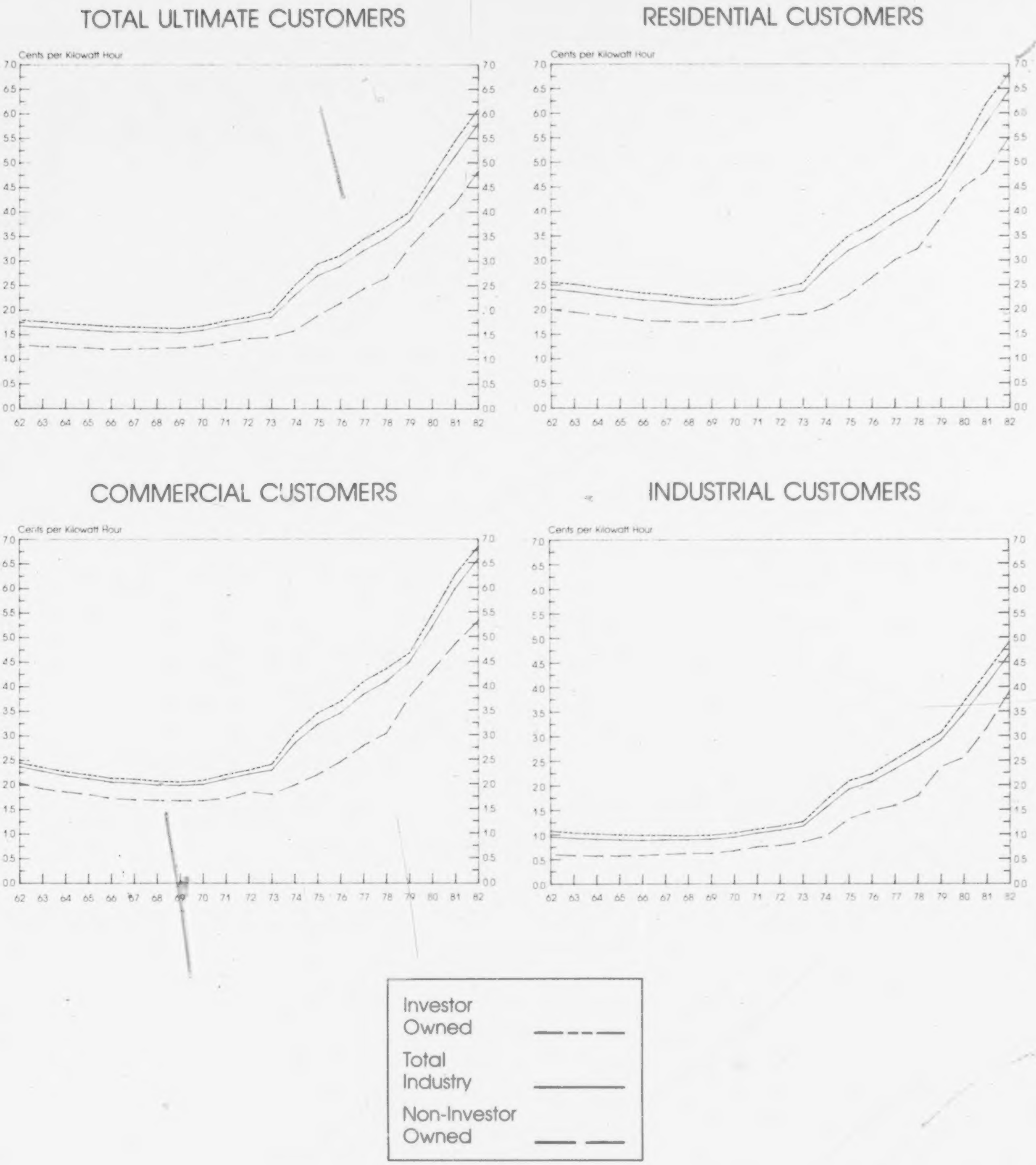
Chart VIII-C
AVERAGE REVENUES PER KWHR SOLD



Based on sales data in Tables 38 and 39, page 43, and revenue data in Tables 56 and 57, page 63.

TABLE 62
AVERAGE REVENUES PER KILOWATT-HOUR SOLD
TOTAL ELECTRIC UTILITY INDUSTRY
CENTS PER KILOWATT-HOUR

Year	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Total Ultimate Customers
1982p	**6.45¢**	**6.60¢**	**4.66¢**	**8.81¢**	**4.62¢**	**6.80¢**	**5.79¢**
1981r	5.80	6.00	4.03	7.96	4.18	6.02	5.14
1980	5.12	5.22	3.44	7.02	3.75	4.86	4.49
1979	4.43	4.50	2.91	6.21	3.06	4.43	3.82
1978	4.03	4.10	2.59	5.74	2.73	3.92	3.46
1977	3.78	3.84	2.33	5.39	2.69	3.46	3.21
1976	3.45	3.46	2.07	5.03	2.44	3.78	2.89
1975	3.21	3.23	1.92	4.74	2.24	3.72	2.70
1974	2.83	2.85	1.55	4.31	1.92	3.43	2.30
1973	2.38	2.30	1.17	3.83	1.47	2.20	1.86
1972	2.29	2.22	1.09	3.69	1.37	1.92	1.77
1971	2.19	2.12	1.03	3.53	1.29	1.72	1.69
1970	2.10	2.01	0.95	3.38	1.20	1.49	1.59
1969	2.09	1.99	0.91	3.25	1.16	1.39	1.54
1968	2.12	2.00	0.90	3.18	1.18	1.35	1.55
1967	2.17	2.04	0.90	3.12	1.19	1.33	1.56
1966	2.20	2.06	0.89	3.05	1.24	1.31	1.56
1965	2.25	2.13	0.90	2.99	1.34	1.31	1.59
1964	2.31	2.19	0.91	2.99	1.35	1.31	1.62
1963	2.37	2.28	0.93	3.05	1.36	1.32	1.65
1962	2.41	2.37	0.96	3.04	1.39	1.34	1.68

Based on sales data in Table 38 and revenue data in Table 56. p Preliminary. r Revised.

TABLE 63
AVERAGE REVENUES PER KILOWATT-HOUR SOLD
INVESTOR-OWNED ELECTRIC UTILITIES
CENTS PER KILOWATT-HOUR

Year	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Total Ultimate Customers
1982p	**6.81¢**	**6.85¢**	**4.91¢**	**9.40¢**	**4.80¢**	**6.77¢**	**6.09¢**
1981r	6.19	6.28	4.29	8.55	4.36	6.20	5.45
1980	5.36	5.47	3.68	7.58	3.95	5.17	4.72
1979	4.63	4.68	3.06	6.60	3.33	3.80	3.99
1978	4.31	4.36	2.80	6.18	2.96	3.59	3.70
1977	4.06	4.10	2.52	5.79	2.90	3.68	3.44
1976	3.73	3.69	2.23	5.43	2.69	3.82	3.11
1975	3.51	3.46	2.09	5.14	2.51	3.79	2.94
1974	3.09	3.05	1.70	4.66	2.17	3.48	2.50
1973	2.54	2.42	1.26	4.12	1.61	2.22	1.97
1972	2.42	2.30	1.17	3.95	1.50	1.94	1.86
1971	2.32	2.21	1.11	3.78	1.42	1.73	1.78
1970	2.22	2.09	1.03	3.62	1.33	1.51	1.68
1969	2.21	2.06	0.99	3.51	1.29	1.40	1.63
1968	2.25	2.08	0.98	3.41	1.31	1.36	1.64
1967	2.31	2.12	0.99	3.36	1.32	1.34	1.66
1966	2.34	2.14	0.99	3.30	1.37	1.32	1.67
1965	2.40	2.21	1.00	3.26	1.40	1.32	1.70
1964	2.45	2.27	1.02	3.24	1.41	1.31	1.73
1963	2.52	2.36	1.04	3.23	1.44	1.33	1.77
1962	2.56	2.45	1.08	3.22	1.47	1.35	1.80

Based on sales data in Table 39 and revenue data in Table 57. p Preliminary. r Revised.

TABLE 64
AVERAGE ANNUAL REVENUE PER CUSTOMER

TOTAL ELECTRIC UTILITY INDUSTRY				INVESTOR-OWNED ELECTRIC UTILITIES			
Year	Total Ultimate Customers	Residential	Commercial	Year	Total Ultimate Customers	Residential	Commercial
1982p	**$1,279.57**	**$560.85**	**$3,429.24**	**1982p**	**$1,332.60**	**$560.50**	**$3,840.77**
1981r	1,184.08	512.30	3,206.52	1981r	1,239.87	514.38	3,499.79
1980	1,040.22	461.81	2,848.00	1980	1,083.26	457.29	3,022.55
1979	897.17	391.30	2,394.04	1979	928.41	387.34	2,555.09
1978	807.12	356.74	2,176.91	1978	858.50	363.56	2,384.37
1977	739.86	328.99	2,031.41	1977	789.43	336.24	2,234.30
1976	646.33	288.39	1,754.26	1976	692.11	297.14	1,942.05
1975	579.03	262.26	1,579.55	1975	626.39	275.86	1,763.39
1974	493.43	223.73	1,327.40	1974	534.25	234.33	1,474.97
1973	408.14	192.35	1,096.55	1973	433.66	197.38	1,197.68
1972	371.01	176.39	988.78	1972	391.66	179.49	1,071.15
1971	336.46	161.49	888.75	1971	354.57	163.64	961.77
1970	307.36	148.58	803.54	1970	321.42	149.42	861.21
1969	285.99	137.45	735.27	1969	298.71	138.06	784.21
1968	269.59	128.53	694.31	1968	281.36	128.95	739.04
1967	254.90	120.85	652.20	1967	264.84	120.93	688.26
1966	244.39	115.65	620.21	1966	255.02	116.19	655.03
1965	233.62	111.11	584.66	1965	243.97	111.32	617.08
1964	226.80	108.44	553.36	1964	236.15	108.28	580.31
1963	220.38	105.17	528.38	1963	228.80	105.03	553.59
1962	214.19	102.66	492.08	1962	221.23	101.50	512.94

Based on revenue data in Tables 56 and 57, and average number of customers per period. p Preliminary. r Revised.

TABLE 65A
AVERAGE ANNUAL REVENUE PER CUSTOMER
TOTAL ELECTRIC UTILITY INDUSTRY
BY STATE AND CERTAIN CLASS OF SERVICE—1982p

Division/State	Total Ultimate Customers	Residential	Commercial
Total United States	**$1,279.57**	**$560.85**	**$3,429.24**
Maine	934.36	448.00	1,976.53
New Hampshire	1,118.21	582.57	1,988.18
Vermont	974.87	519.63	1,809.24
Massachusetts	1,168.41	501.35	4,584.29
Rhode Island	1,034.29	460.71	3,820.41
Connecticut	1,378.82	628.40	5,527.58
New England	**1,172.50**	**532.07**	**4,035.73**
New York	1,372.26	523.34	5,248.29
New Jersey	1,467.00	609.68	4,780.61
Pennsylvania	1,278.12	536.93	3,135.77
Middle Atlantic	**1,360.07**	**545.47**	**4,473.54**
Ohio	1,260.16	535.09	3,396.10
Indiana	1,234.54	542.21	2,463.79
Illinois	1,325.21	523.30	4,805.76
Michigan	1,018.56	394.50	3,092.27
Wisconsin	1,052.81	501.03	2,907.22
East North Central	**1,196.21**	**497.79**	**3,506.89**
Minnesota	1,029.88	490.68	1,834.81
Iowa	1,073.16	559.77	2,262.50
Missouri	988.75	505.39	3,087.19
North Dakota	1,019.74	596.18	1,604.91
South Dakota	830.15	538.51	1,804.88
Nebraska	897.31	486.57	1,741.31
Kansas	1,165.00	536.10	3,004.54
West North Central	**1,021.97**	**518.17**	**2,378.11**
Delaware	1,595.05	690.62	5,201.11
Maryland and D.C.	1,447.98	580.46	4,787.83
Virginia	1,347.66	677.61	3,919.53
West Virginia	1,114.76	484.52	2,436.48
North Carolina	1,293.08	662.03	2,668.61
South Carolina	1,457.08	664.08	2,757.96
Georgia	1,252.26	589.81	3,575.72
Florida	1,272.42	742.45	4,003.27
South Atlantic	**1,314.13**	**661.13**	**3,596.88**
Kentucky	1,435.29	530.92	2,143.48
Tennessee	1,657.25	665.56	1,396.70
Alabama	1,502.11	681.87	2,541.84
Mississippi	1,287.46	647.15	2,486.93
East South Central	**1,499.34**	**633.98**	**2,091.64**
Arkansas	1,096.27	584.52	2,240.22
Louisiana	1,672.79	703.97	3,455.04
Oklahoma	1,204.51	595.24	2,731.29
Texas	1,807.18	787.59	3,831.42
West South Central	**1,630.00**	**726.20**	**3,487.56**
Montana	763.21	351.40	1,358.23
Idaho	1,013.07	473.76	2,073.10
Wyoming	1,181.78	374.67	1,539.98
Colorado	911.93	402.27	2,931.55
New Mexico	1,199.61	443.59	2,935.78
Arizona	1,366.25	613.45	4,373.69
Utah	1,161.42	476.05	3,629.93
Nevada	1,418.58	638.14	3,035.21
Mountain	**1,126.34**	**485.20**	**2,993.60**
Washington	889.95	423.71	2,017.66
Oregon	992.96	462.54	2,428.73
California	1,158.90	427.46	3,565.50
Pacific	**1,105.38**	**430.15**	**3,267.04**
Alaska	1,294.91	657.27	2,988.06
Hawaii	2,320.39	825.17	4,432.48
Alaska & Hawaii	**1,973.39**	**768.69**	**3,969.75**

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Based on revenue data in Table 59 and average number of customers data in Table 52.

TABLE 65B
AVERAGE ANNUAL REVENUE PER CUSTOMER
TOTAL ELECTRIC UTILITY INDUSTRY
BY STATE AND CERTAIN CLASS OF SERVICE— 1981r

Division/State	Total Ultimate Customers	Residential	Commercial
Total United States	**$1,184.08**	**$512,30**	**$3,206.52**
Maine	935.15	447.16	1,942.57
New Hampshire	1,174.57	591.37	2,078.79
Vermont	874.82	471.14	1,607.68
Massachusetts	1,210.04	509.95	4,633.49
Rhode Island	1,104.10	481.21	4,027.78
Connecticut	1,311.61	591.64	5,001.12
New England	**1,179.43**	**526.49**	**3,947.05**
New York	1,309.05	499.50	5,006.06
New Jersey	1,360.61	569.92	4,272.55
Pennsylvania	1,169.88	473.95	2,699.16
Middle Atlantic	**1,272.88**	**505.16**	**4,108.32**
Ohio	1,247.17	508.48	3,387.33
Indiana	1,107.43	478.24	2,251.08
Illinois	1,207.25	469.67	4,314.98
Michigan	1,007.91	390.31	2,875.58
Wisconsin	919.65	425.57	2,663.07
East North Central	**1,125.91**	**457.96**	**3,270.17**
Minnesota	954.22	442.35	1,849.88
Iowa	1,005.56	512.86	2,120.89
Missouri	903.15	459.13	2,860.00
North Dakota	880.51	509.68	1,825.48
South Dakota	785.64	496.71	1,925.86
Nebraska	819.77	435.02	1,841.18
Kansas	1,042.59	468.70	2,824.84
West North Central	**937.43**	**466.61**	**2,309.51**
Delaware	1,549.26	616.09	4,582.30
Maryland and D.C.	1,349.37	536.18	4,484.27
Virginia	1,250.81	639.88	3,823.55
West Virginia	1,014.32	435.52	2,137.59
North Carolina	1,133.12	600.66	2,265.04
South Carolina	1,318.27	622.39	2,479.97
Georgia	1,121.90	530.17	3,325.83
Florida	1,306.08	758.59	3,834.75
South Atlantic	**1,239.42**	**630.53**	**3,341.33**
Kentucky	1,339.30	498.87	2,813.00
Tennessee	1,496.27	616.29	1,257.47
Alabama	1,435.07	626.76	2,321.27
Mississippi	1,259.79	626.77	2,579.03
East South Central	**1,401.89**	**591.84**	**2,164.64**
Arkansas	619.48	51.49	2,056.35
Louisiana	1,622.69	679.20	3,358.61
Oklahoma	1,029.07	521.10	2,562.96
Texas	1,576.49	675.82	3,406.32
West South Central	**1,408.10**	**589.54**	**3,158.68**
Montana	655.59	312.43	1,293.94
Idaho	961.91	415.95	2,109.96
Wyoming	1,078.88	349.74	2,288.13
Colorado	820.99	352.08	2,644.56
New Mexico	1,096.90	395.83	3,004.62
Arizona	1,439.05	657.44	4,538.42
Utah	1,065.58	443.14	3,567.00
Nevada	1,237.20	540.72	2,635.61
Mountain	**1,060.52**	**453.90**	**2,946.37**
Washington	693.25	356.86	1,697.07
Oregon	898.24	453.07	2,011.11
California	1,051.54	380.64	3,276.42
Pacific	**986.52**	**383.94**	**2,950.83**
Alaska	1,192.17	608.79	3,767.82
Hawaii	2,281.61	813.58	4,444.65
Alaska & Hawaii	**1,914.24**	**744.92**	**4,219.15**

Based on revenue data in Table 59 and average number of customers data in Table 52.
r Revised.

TABLE 66A
AVERAGE ANNUAL REVENUE PER CUSTOMER
INVESTOR-OWNED ELECTRIC UTILITIES
BY STATE AND CERTAIN CLASS OF SERVICE—1982p

Division/State	Total Ultimate Customers	Residential	Commercial
Total United States	**$1,332.60**	**$560.50**	**$3,840.77**
Maine	949.73	449.12	2,024.91
New Hampshire	1,175.65	587.92	2,078.88
Vermont	1,031.47	526.69	1,945.07
Massachusetts	1,171.14	495.45	4,799.46
Rhode Island	1,037.39	460.68	3,835.21
Connecticut	1,392.37	640.47	5,715.47
New England	**1,188.22**	**534.38**	**4,210.39**
New York	1,292.43	529.79	5,346.13
New Jersey	1,474.50	610.37	4,826.55
Pennsylvania	1,306.37	536.00	3,194.07
Middle Atlantic	**1,334.77**	**548.44**	**4,550.85**
Ohio	1,303.09	525.89	3,562.75
Indiana	1,371.36	541.29	2,690.07
Illinois	1,341.65	510.97	4,843.54
Michigan	1,055.79	392.93	3,133.96
Wisconsin	1,085.07	486.07	3,180.85
East North Central	**1,241.14**	**488.69**	**3,659.96**
Minnesota	1,151.93	421.07	1,785.19
Iowa	1,137.59	522.73	2,405.33
Missouri	1,087.30	499.72	3,518.54
North Dakota	992.74	548.95	1,702.94
South Dakota	920.18	509.04	2,214.35
Nebraska	—	—	—
Kansas	1,157.88	530.78	3,560.78
West North Central	**1,113.80**	**492.98**	**2,743.80**
Delaware	1,757.31	713.97	5,499.27
Maryland and D.C.	1,473.26	570.53	4,947.04
Virginia	1,423.04	686.79	4,319.47
West Virginia	1,120.23	485.41	2,449.23
North Carolina	1,447.62	678.24	2,911.75
South Carolina	1,657.88	694.01	2,942.60
Georgia	1,591.42	588.10	4,667.35
Florida	1,281.26	740.68	4,233.94
South Atlantic	**1,408.96**	**663.12**	**3,938.51**
Kentucky	1,154.45	498.30	2,558.91
Tennessee	1,405.56	725.61	3,402.84
Alabama	1,563.45	661.21	3,170.13
Mississippi	1,538.54	672.78	3,454.98
East South Central	**1,405.64**	**604.50**	**3,021.75**
Arkansas	1,247.57	594.33	2,630.48
Louisiana	1,878.21	695.09	3,863.83
Oklahoma	1,219.89	583.33	3,244.84
Texas	2,052.45	847.64	4,474.19
West South Central	**1,840.00**	**762.67**	**4,068.67**
Montana	674.92	320.44	1,519.86
Idaho	1,084.49	495.88	2,116.43
Wyoming	1,051.45	317.38	1,596.93
Colorado	945.34	387.44	3,783.91
New Mexico	1,290.07	468.27	3,987.44
Arizona	1,476.76	621.73	4,682.57
Utah	1,255.01	520.20	4,181.72
Nevada	1,423.91	652.78	2,875.48
Mountain	**1,166.40**	**486.78**	**3,393.59**
Washington	760.78	454.40	2,475.60
Oregon	981.64	461.89	2,604.12
California	1,229.49	456.87	3,830.38
Pacific	**1,163.95**	**457.15**	**3,605.27**
Alaska	1,213.57	556.37	3,092.97
Hawaii	2,320.39	825.17	4,432.48
Alaska & Hawaii	**2,278.11**	**815.48**	**4,376.22**

p Preliminary.

Based on revenue data in Table 60 and average number of customer data in Table 53.

TABLE 66B
AVERAGE ANNUAL REVENUE PER CUSTOMER
INVESTOR-OWNED ELECTRIC UTILITIES
BY STATE AND CERTAIN CLASS OF SERVICE—1981r

Division/State	Total Ultimate Customers	Residential	Commercial
Total United States	**$1,239.87**	**$514.38**	**$3,499.79**
Maine	948.81	447.96	1,978.94
New Hampshire	1,237.04	596.12	2,158.31
Vermont	901.65	468.10	1,702.22
Massachusetts	1,229.26	510.84	4,876.58
Rhode Island	1,107.54	481.31	4,045.02
Connecticut	1,305.29	597.02	5,114.22
New England	**1,195.51**	**529.33**	**4,116.13**
New York	1,249.35	505.16	5,091.42
New Jersey	1,367.21	570.49	4,312.90
Pennsylvania	1,194.03	472.26	2,738.35
Middle Atlantic	**1,255.51**	**507.68**	**4,172.99**
Ohio	1,301.82	501.77	3,560.10
Indiana	1,216.38	465.72	2,322.48
Illinois	1,231.38	459.56	4,360.48
Michigan	1,030.04	390.77	2,904.76
Wisconsin	944.65	406.63	2,819.65
East North Central	**1,169.89**	**449.64**	**3,385.01**
Minnesota	1,048.82	353.82	1,613.16
Iowa	1,056.92	473.63	2,214.34
Missouri	1,005.19	456.54	3,195.11
North Dakota	805.80	423.19	1,519.03
South Dakota	819.07	441.29	1,995.35
Nebraska	—	—	—
Kansas	1,067.55	463.04	3,295.00
West North Central	**1,020.73**	**434.85**	**2,508.19**
Delaware	1,638.99	629.21	4,849.60
Maryland and D.C.	1,371.45	524.78	4,562.91
Virginia	1,304.15	637.63	3,993.63
West Virginia	1,018.83	435.81	2,148.02
North Carolina	1,255.66	594.21	2,370.45
South Carolina	1,540.05	647.27	2,629.56
Georgia	1,382.51	522.19	3,873.50
Florida	1,342.54	770.26	4,124.22
South Atlantic	**1,329.16**	**631.31**	**3,569.15**
Kentucky	1,093.53	456.10	2,302.83
Tennessee	1,366.48	691.02	3,148.25
Alabama	1,467.63	613.64	2,820.76
Mississippi	1,536.15	658.46	3,268.04
East South Central	**1,342.10**	**565.52**	**2,743.94**
Arkansas	1,193.79	537.88	2,503.66
Louisiana	1,818.28	666.91	3,588.16
Oklahoma	1,080.10	496.72	2,909.06
Texas	1,791.49	716.31	3,859.57
West South Central	**1,645.78**	**661.23**	**3,576.59**
Montana	600.87	275.00	1,374.97
Idaho	1,038.37	428.44	2,203.68
Wyoming	830.64	245.18	1,184.24
Colorado	853.04	332.47	3,263.62
New Mexico	1,153.94	409.64	3,579.43
Arizona	1,423.73	616.05	4,238.44
Utah	1,150.93	482.11	3,840.15
Nevada	1,211.68	543.84	2,736.82
Mountain	**1,064.79**	**436.54**	**3,051.13**
Washington	665.67	397.91	2,096.32
Oregon	913.04	462.74	2,117.76
California	1,089.56	397.85	3,442.32
Pacific	**1,034.83**	**404.34**	**3,197.08**
Alaska	871.46	416.13	2,100.06
Hawaii	2,281.61	813.58	4,444.65
Alaska & Hawaii	**2,224.05**	**798.01**	**4,343.49**

Based on revenue data in Table 60 and average number of customer data in Table 53.
r Revised.

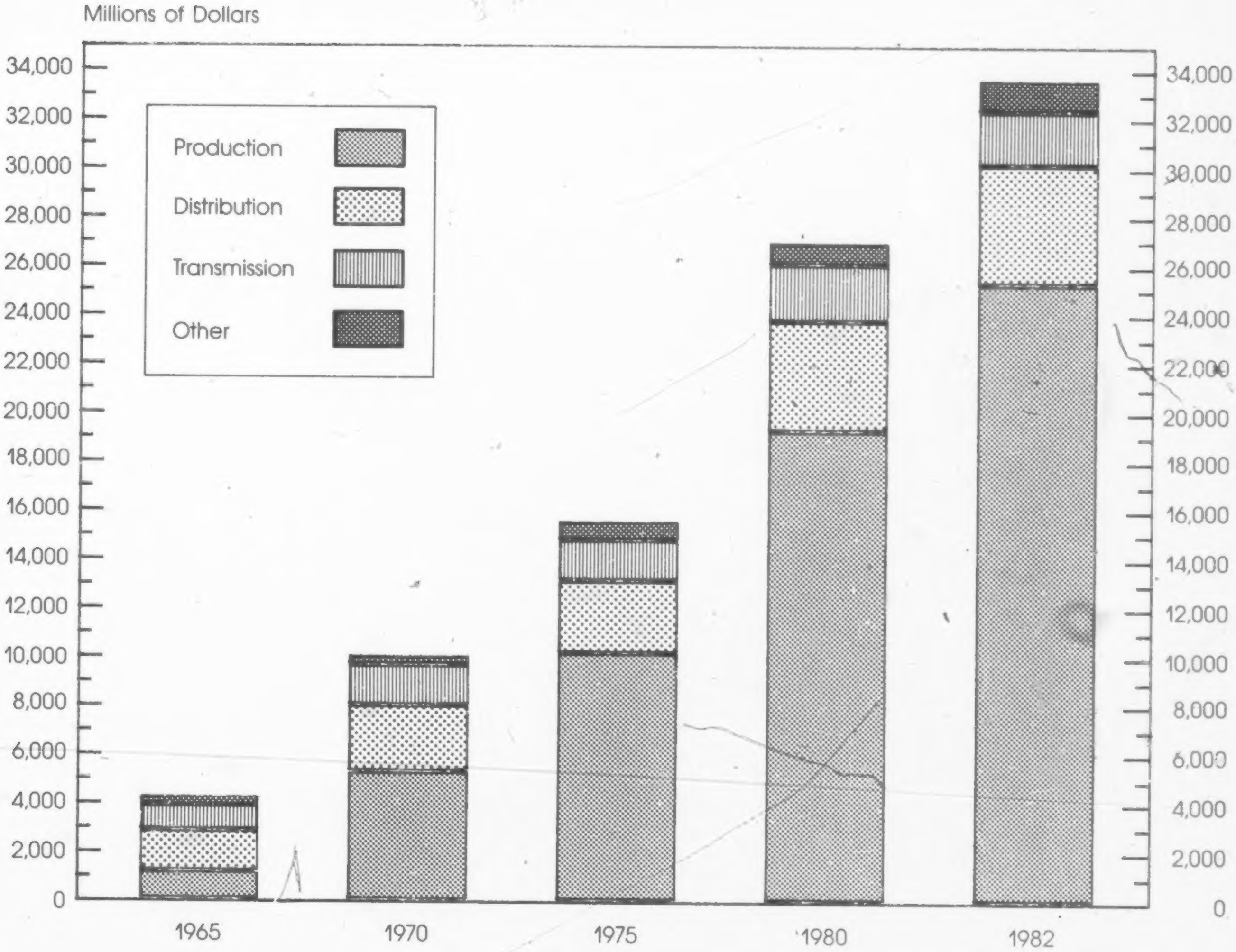
FINANCIAL

SECTION IX

Chart IX-A

CONSTRUCTION EXPENDITURES

INVESTOR-OWNED ELECTRIC UTILITIES



Based on Table 69, page 78.

TABLE 69
CONSTRUCTION EXPENDITURES—INVESTOR-OWNED ELECTRIC UTILITIES
BY TYPE OF ELECTRIC UTILITY PLANT
MILLIONS OF DOLLARS

	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972
Production											
Steam	$ 7,828	$ 7,221	$ 7,498	$ 7,572	$ 6,664	$ 6,529	$ 5,689	$ 5,062	$ 5,323	$ 4,923	$ 4,306
Nuclear	16,461	12,785	11,045	9,855	8,813	7,273	5,815	4,545	3,969	3,270	2,920
Other	1,050	906	695	854	655	614	460	487	802	662	691
Total	**25,339**	**20,912**	**19,238**	**18,281**	**16,132**	**14,416**	**11,964**	**10,094**	**10,094**	**8,855**	**7,917**
Transmission	2,203	2,270	2,353	2,090	1,738	1,687	1,832	1,771	2,145	1,878	1,749
Distribution	4,827	4,606	4,483	4,334	3,875	3,390	2,974	3,075	3,583	3,568	3,192
General/Miscellaneous*	1,233	1,336	937	776	1,192	788	590	710	880	758	605
Subtotal	**33,602**	**29,124**	**27,011**	**25,481**	**22,937**	**20,281**	**17,360**	**15,650**	**16,702**	**15,059**	**13,463**
Nuclear Fuel	1,748	1,566	1,324	1,338	1,093	1,016	798	541	490	232	265
GRAND TOTAL	**$35,350**	**$30,690**	**$28,335**	**$26,819**	**$24,030**	**$21,297**	**$18,158**	**$16,191**	**$17,192**	**$15,291**	**$13,728**
AFUDC included in TOTAL	$ 6,612	$ 5,358	$ 4,365	$ 3,593	$ 2,717	$ 2,267	$ 1,854	$ 1,676	$ 1,576	$ 1,277	$ 1,078

	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962
Production										
Steam	$ 3,507	$ 2,790	$ 2,227	$ 2,076	$ 1,735	$ 1,294	$ 987	$ N/A	$ N/A	$ N/A
Nuclear	2,410	1,641	1,120	679	433	126	56	N/A	N/A	N/A
Other	620	818	550	347	311	220	185	N/A	N/A	N/A
Total	**6,537**	**5,249**	**3,897**	**3,102**	**2,479**	**1,640**	**1,228**	**1,115**	**1,083**	**1,057**
Transmission	1,818	1,625	1,555	1,378	1,329	1,161	923	754	609	571
Distribution	2,869	2,751	2,511	2,299	2,102	1,851	1,666	1,502	1,339	1,276
General/Miscellaneous*	633	422	394	339	294	289	238	187	209	133
Subtotal	**11,857**	**10,047**	**8,357**	**7,118**	**6,204**	**4,941**	**4,055**	**3,558**	**3,240**	**3,037**
Nuclear Fuel	361	217	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
GRAND TOTAL	**$12,218**	**$10,264**	**$ 8,357**	**$ 7,118**	**$ 6,204**	**$ 4,941**	**$ 4,055**	**$ 3,558**	**$ 3,240**	**$ 3,037**
AFUDC included in TOTAL	$ 809	$ 583	$ 398	$ 270	$ 185	$ 126	$ 92	$ 84	$ 77	$ 88

This table has been restructured based on data submitted to the Institute. Data, compiled on a 50 state basis, now includes nuclear fuel and reflects the amount of AFUDC in the total.

Construction expenditures are, in general, the gross amounts spent for construction of all kinds, including the acquisition of real estate and all necessary equipment.

The figures include money spent for replacements, additions, and betterments (but not for maintenance of existing plant) as well as for new construction.

*Includes intangible plant.

N/A Not available.

TABLE 70
COMBINED BALANCE SHEETS—YEAR ENDED DECEMBER 31ST
INVESTOR-OWNED ELECTRIC UTILITIES
INTERCOMPANY TRANSACTIONS ELIMINATED
MILLIONS OF DOLLARS

	1982	1981	1980	1979	1978	1977
ASSETS						
Utility Plant:						
Electric	$319,723	$290,723	$265,233	$241,401	$216,795	$196,010
Accumulated Provision for Depreciation and Amortization	64,552	58,783	53,324	49,161	44,211	39,886
Net Electric Utility Plant	**255,171**	**231,940**	**211,909**	**192,240**	**172,584**	**156,124**
Nuclear Fuel	8,056	7,449	6,704	5,788	4,749	3,610
Accumulated Provision for Amortization of Nuclear Fuel Assemblies	3,591	3,324	2,754	2,029	1,566	999
Net Nuclear Fuel	**4,465**	**4,125**	**3,950**	**3,759**	**3,183**	**2,611**
Net Total Electric Utility Plant	**259,636**	**236,065**	**215,859**	**195,999**	**175,767**	**158,735**
Other	17,084	16,241	14,673	13,775	12,700	12,376
Accumulated Provision for Depreciation and Amortization	5,462	4,959	4,502	4,130	3,743	3,517
Net Other Utility Plant	**11,622**	**11,282**	**10,171**	**9,645**	**8,957**	**8,859**
Total Utility Plant	344,862	314,413	286,610	260,964	234,244	211,996
Accumulated Provision for Depreciation and Amortization	73,605	67,066	60,580	55,320	49,520	44,402
Net Total Utility Plant	**271,258**	**247,347**	**226,030**	**205,644**	**184,724**	**167,594**
Other Property and Investment	6,656	5,737	4,593	4,006	3,262	2,821
Total Current and Accrued Assets	31,799	28,100	25,928	21,644	18,419	17,640
Total Deferred Debits*	7,486	6,532	5,064	4,465	3,274	2,677
Total Assets*	**$317,198**	**$287,716**	**$261,615**	**$235,759**	**$209,679**	**$190,732**
LIABILITIES						
Capitalization:						
Common Capital Stock	$ 40,491	$ 35,406	$ 32,616	$ 29,179	$ 26,625	$ 24,283
Other Paid-In Capital Excluding Retained Earnings**	27,305	23,838r	20,509	18,538	16,458	14,592
Retained Earnings*	30,984	27,511	24,865	23,035	21,250	19,450
Total Common Capital Stock Equity*	**98,779**	**86,755**	**77,990**	**70,752**	**64,333**	**58,325**
Preferred Stock	28,616	26,817	25,755	23,881	21,565	20,019
Long-Term Debt:						
Mortgage Bonds	98,998	93,783	88,579	82,014	76,534	72,462
Other Long-Term Debt	24,694	20,780	16,978	14,244	10,954	9,523
Total Long-Term Debt	**123,692**	**114,563**	**105,557**	**96,258**	**87,488**	**81,985**
Total Capitalization*	**251,088**	**228,136**	**209,302**	**190,891**	**173,386**	**160,329**
Total Current and Accrued Liabilities	33,356	32,395	29,564	25,990	20,511	16,983
Contribution in Aid of Construction	127	115	91	82	70	63
Deferred Income Taxes	18,310	15,931	13,341	10,449	8,838	7,431
Deferred Investment Tax Credits	10,408	8,271	7,133	6,343	5,253	4,116
Other Deferred Credits and Operating Reserves†	3,909	2,869	2,184	2,004	1,621	1,810
Total Liabilities*	**$317,198**	**$287,716**	**$261,615**	**$235,759**	**$209,679**	**$190,732**

Note: Total may not equal sum of components due to independent rounding.
*Figures revised (1977–1979) due to reclassification of Capital Stock Expense from "Total Deferred Debits" to "Retained Earnings."
**Includes Premium on Common and Preferred Stock.
†"Total Deferred Credits and Operating Reserves" has been retitled "Other Deferred Credits and Operating Reserves." Deferred Investment Tax Credits, previously included in "Total Deferred Credits and Operating Reserves," are now shown as a separate item.
rRevised.

TABLE 71
COMBINED INCOME STATEMENTS—YEAR ENDED DECEMBER 31ST
INVESTOR-OWNED ELECTRIC UTILITIES
INTERCOMPANY TRANSACTIONS ELIMINATED
MILLIONS OF DOLLARS

	1982	1981	1980	1979	1978	1977
			ELECTRIC DEPARTMENT ONLY			
Operating Revenues	$101,693	$ 94,270	$80,636	$68,152	$61,299	$55,142
Operating Expenses:						
Operation	54,118	52,563	44,841	36,592	31,811	28,181
Maintenance	7,124	6,279	5,616	4,788	4,153	3,528
Depreciation and Depletion	7,301	6,690	6,079	5,628	5,120	4,640
Amortization Charged to Operation	103	103	40	33	31	14
Property Losses Charged to Operation	184	100	74	45	21	15
Taxes Other Than Income Taxes	7,151	6,565	5,866	5,300	4,985	4,649
Federal Income Taxes	2,853	1,704	1,242	660	921	739
State Income Taxes	715	379	307	244	271	225
Deferred Income Taxes:						
Due to Liberalized Depreciation	1,952	1,641	1,409	1,331	1,283	1,070
Due to Accelerated Amortization	21	15	29	14	30	20
Other Deferred Income Taxes	(386)	552	561	480	268	372
Investment Tax Credit Adjustments*	2,298	1,333	854	1,098	1,282	1,349
Total Operating Expenses	83,435	77,922	66,918	56,213	50,176	44,802
Operating Income	$ 18,258	$ 16,347	$13,718	$11,939	$11,123	$10,340
			ALL DEPARTMENTS			
Operating Revenues	$121,062	$111,506	$95,326	$80,021	$71,042	$63,884
Operating Expenses:						
Operation	69,982	66,553	56,720	46,050	39,354	34,904
Maintenance	7,556	6,728	6,003	5,137	4,451	3,820
Depreciation and Depletion	7,856	7,221	6,552	6,043	5,490	4,995
Amortization Charged to Operation	122	120	55	34	34	15
Property Losses Charged to Operation	186	101	76	46	21	16
Taxes Other Than Income Taxes	8,044	7,451	6,580	5,897	5,542	5,180
Federal Income Taxes	3,035	1,854	1,328	821	1,086	819
State Income Taxes	755	405	331	267	290	242
Deferred Income Taxes:						
Due to Liberalized Depreciation	2,021	1,716	1,480	1,383	1,310	1,107
Due to Accelerated Amortization	26	20	30	14	32	24
Other Deferred Income Taxes	(269)	573	647	478	287	401
Investment Tax Credit Adjustments*	2,377	1,386	897	1,134	1,315	1,380
Total Operating Expenses	101,691	94,127	80,699	67,304	59,212	52,903
Operating Income	19,371	17,378	14,627	12,717	11,830	10,981
Other Income (Non-Operating) Net	1,831	1,733	1,232	918	715	579
Allowance for Other Funds Used During Construction	3,889	2,939	2,533	2,189	1,684	1,425
Income Before Interest Charges (Gross Income)	25,091	22,050	18,392	15,824	14,229	12,985
Interest Charges:						
Interest on Long-Term Debt	11,483	10,213	8,488	7,198	6,343	5,735
Interest on Short-Term Debt	813	1,261	1,142	597	314	221
Amortization of Debt Discount Expense and Premium	72	59	44	35	33	28
Other Interest Expense	615	438	285	218	154	133
Allowance for Borrowed Funds Used During Construction—Credit	(2,917)	(2,550)	(2,094)	(1,538)	(1,223)	(942)
Total Interest Charges	10,066	9,421	7,865	6,510	5,621	5,175
Income Before Extraordinary Items	15,025	12,628	10,527	9,314	8,608	7,810
Extraordinary Items	121	28	2	(12)	(34)	3
Net Income	15,146	12,656	10,529	9,302	8,574	7,813
Preferred Dividend Charges	2,502	2,251	2,042	1,750	1,592	1,488
Available for Common Stock	12,643	10,405	8,487	7,552	6,982	6,325
Common Dividends	8,968	7,587	6,429	5,587	4,956	4,322
Net Income After Dividends	$ 3,676	$ 2,818	$ 2,058	$ 1,965	$ 2,026	$ 2,003

Note: Total may not equal sum of components due to independent rounding.

*Investment Tax Credit Adjustments, previously included in "Charges in Lieu of Taxes," are now shown as a separate item.

( ) Denotes credit or negative value.

TABLE 72
DETAIL OF ELECTRIC OPERATION & MAINTENANCE EXPENSES
INVESTOR-OWNED ELECTRIC UTILITIES
MILLIONS OF DOLLARS

	1982	1981	1980	1979	1978	1977
Production	$48,010	$47,281	$40,396	$32,575	$28,137	$24,746
Transmission and Distribution	4,721	4,172	3,761	3,360	3,006	2,702
Customer Accounts	2,109	1,858	1,592	1,362	1,312	1,256
Customer Service and Information	512	396	302	279	*	*
Sales	34	31	33	45	179	86
Administrative and General	5,855	5,104	4,373	3,759	3,330	2,919
Total Operation & Maintenance Expenses	**$61,242**	**$58,842**	**$50,457**	**$41,380**	**$35,964**	**$31,709**
Cost of Fuel**	$36,627	$37,165	$31,622	$26,281	$22,225	$20,122

Note: Total may not equal sum of components due to independent rounding.
*Data for this item not reported separately prior to 1979.
**Included in "Total Operation & Maintenance Expenses."

TABLE 73
DETAIL OF TAXES—ELECTRIC DEPARTMENT ONLY
INVESTOR-OWNED ELECTRIC UTILITIES
MILLIONS OF DOLLARS

	1982		1981		1980	
	Amount	% of Oper. Revenue	Amount	% of Oper. Revenue	Amount	% of Oper. Revenue
Federal Taxes						
Income	$ 2,853	2.8%	$ 1,702	1.8%	$ 1,242	1.5%
Deferred Taxes on Income*	1,842	1.8	1,541	1.6	1,347	1.7
Other Deferred Income Taxes**	2,012	2.0	1,871	2.0	1,392	1.7
Miscellaneous Taxes	617	0.6	544	0.6	432	0.5
Total Federal Taxes Charged to Income	7,324	7.2	5,658	6.0	4,413	5.4
State and Local Taxes	7,280	7.2	6,537	6.9	5,855	7.3
Total Taxes Charged to Income	**$14,604**	**14.4%**	**$12,195**	**12.9%**	**$10,268**	**12.7%**

	1979		1978		1977	
	Amount	% of Oper. Revenue	Amount	% of Oper. Revenue	Amount	% of Oper. Revenue
Federal Taxes						
Income	$ 660	1.0%	$ 921	1.5%	$ 739	1.4%
Deferred Taxes on Income*	1,255	1.8	1,228	2.0	1,005	1.8
Other Deferred Income Taxes**	1,574	2.3	1,535	2.5	1,715	3.1
Miscellaneous Taxes	379	0.6	322	0.5	328	0.6
Total Federal Taxes Charged to Income	3,868	5.7	4,006	6.5	3,787	6.9
State and Local Taxes	5,259	7.7	5,034	8.2	4,637	8.4
Total Taxes Charged to Income	**$ 9,127**	**13.4%**	**$ 9,040**	**14.7%**	**$ 8,424**	**15.3%**

Note: Total may not equal sum of components due to independent rounding.
*Due to liberalized depreciation and accelerated amortization.
**Includes investment tax credits reported as charges to income for the current year.

TABLE 74
CAPITALIZATION AND CAPITALIZATION RATIOS
INVESTOR-OWNED ELECTRIC UTILITIES
MILLIONS OF DOLLARS

	1982	1981	1980	1979	1978	1977
CAPITALIZATION OUTSTANDING						
Mortgage Bonds	$ 98,998	$ 93,783	$ 88,579	$ 82,014	$ 76,534	$ 72,462
Other Long-Term Debt	24,694	20,780	16,978	14,244	10,954	9,523
Total Long-Term Debt	**123,692**	**114,563**	**105,557**	**96,258**	**87,488**	**81,985**
Preferred Stock	28,616	26,817	25,755	23,881	21,565	20,019
Common Capital Stock	40,491	35,406	32,616	29,179	26,625	24,283
Other Paid-In Capital Excluding Retained Earnings*	27,305	23,838	20,509	18,538	16,458	14,592
Retained Earnings**	30,984	27,511	24,865	23,035	21,250	19,450
Total Capitalization**	**$251,088**	**$228,135**	**$209,302**	**$190,891**	**$173,386**	**$160,329**
CAPITALIZATION RATIOS**						
Mortgage Bonds	39.5%	41.1%	42.3%	42.9%	44.2%	45.2%
Other Long-Term Debt	9.8	9.1	8.1	7.5	6.3	5.9
Total Long-Term Debt	**49.3**	**50.2**	**50.4**	**50.4**	**50.5**	**51.1**
Preferred Stock	11.4	11.8	12.3	12.5	12.4	12.5
Common Capital Stock Equity	39.3	38.0	37.3	37.1	37.1	36.4
Total Capitalization	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Note: Total may not equal sum of components due to independent rounding.
*Includes Premium on Common and Preferred Stock.
**Figures revised (1977–1979) due to reclassification of Capital Stock Expense. Refer to Table 70 for specific details.

TABLE 75
PUBLIC UTILITY LONG-TERM FINANCING—INVESTOR-OWNED UTILITIES
BY YEAR, TYPE OF ISSUE, PURPOSE AND TYPE OF UTILITY
1977–1982—THOUSANDS OF DOLLARS

	1982	1981	1980	1979	1978	1977
ELECTRIC UTILITIES						
LONG-TERM DEBT:						
New Capital	$ 8,438,375	$ 8,576,941	$ 7,847,006	$ 7,223,256	$ 6,867,909	$ 7,388,630
Refunding	786,195	351,954	461,294	638,804	334,971	792,550
Divestment	—	—	—	—	—	—
Total Long-Term Debt	9,224,570	8,928,895	8,308,300	7,862,060	7,202,880	8,181,180
PREFERRED STOCK:						
New Capital	2,096,830	1,173,750	2,003,000	2,288,848	1,671,500	1,873,341
Refunding	40,000	—	7,500	75,300	107,405	122,740
Divestment	—	—	—	—	—	—
Total Preferred	2,136,830	1,173,750	2,010,500	2,364,148	1,778,905	1,996,081
COMMON STOCK:						
New Capital	5,003,687	4,089,481	4,063,303	3,356,088	3,316,523	3,792,686
Refunding	21,103	—	—	—	61,600	5,000
Divestment	—	—	—	—	—	—
Total Common	5,024,790	4,089,481	4,063,303	3,356,088	3,378,123	3,797,686
TOTAL CAPITAL:						
New Capital	15,538,892	13,840,172	13,913,309	12,868,192	11,855,932	13,054,657
Refunding	847,298	351,954	468,794	714,104	503,976	920,290
Divestment	—	—	—	—	—	—
Total Capital	$16,386,190	$14,192,126	$14,382,103	$13,582,296	$12,359,908	$13,974,947
GAS UTILITIES*						
LONG-TERM DEBT:						
New Capital	$ 1,897,096	$ 1,669,000	$ 924,500	$ 808,211	$ 543,650	$ 663,970
Refunding	17,904	116,000	10,000	203,789	43,350	105,030
Divestment	—	—	—	—	—	—
Total Long-Term Debt	1,915,000	1,785,000	934,500	1,012,000	587,000	769,000
PREFERRED STOCK:						
New Capital	357,000	130,000	276,000	215,000	218,550	85,300
Refunding	—	—	—	—	3,200	—
Divestment	—	—	—	—	—	—
Total Preferred	357,000	130,000	276,000	215,000	218,550	88,500
COMMON STOCK:						
New Capital	40,025	192,463	351,000	193,505	145,594	89,832
Refunding	—	—	—	—	—	—
Divestment	—	—	—	235,227	—	—
Total Common	40,025	192,463	351,000	428,732	145,594	89,832
TOTAL CAPITAL:						
New Capital	2,294,121	1,991,463	1,551,500	1,216,716	907,794	839,102
Refunding	17,904	116,000	10,000	203,789	43,350	108,230
Divestment	—	—	—	235,227	—	—
Total Capital	$ 2,312,025	$ 2,107,463	$ 1,561,500	$ 1,655,732	$ 951,144	$ 947,332
ALL OTHER UTILITIES†						
LONG-TERM DEBT:						
New Capital	$ 495,000	$ 3,578,000	$ 5,775,000	$ 3,841,750	$ 2,829,500	$ 1,778,379
Refunding	—	168,000	240,000	110,000	275,000	1,066,621
Divestment	—	—	—	—	—	—
Total Long-Term Debt	495,000	3,746,000	6,015,000	3,951,750	3,104,500	2,845,000
PREFERRED STOCK:						
New Capital	40,000	—	83,000	130,000	164,650	1,000
Refunding	—	—	—	—	20,000	16,500
Divestment	—	—	—	—	—	—
Total Preferred	40,000	—	83,000	130,000	184,650	17,500
COMMON STOCK:						
New Capital	1,558,876	984,053	40,916	415,659	35,266	917,342
Refunding	—	—	—	76,556	2,550	—
Divestment	—	—	—	—	—	—
Total Common	1,558,876	984,053	40,916	492,215	37,816	917,342
TOTAL CAPITAL:						
New Capital	2,093,876	4,562,053	5,898,916	4,387,409	3,029,416	2,696,721
Refunding	—	168,000	240,000	186,556	297,550	1,083,121
Divestment	—	—	—	—	—	—
Total Capital	$ 2,093,876	$ 4,730,053	$ 6,138,916	$ 4,573,965	$ 3,326,966	$ 3,779,842
TOTAL UTILITY FINANCING						
LONG-TERM DEBT:						
New Capital	$10,830,471	$13,823,941	$14,546,506	$11,873,217	$10,241,059	$ 9,830,979
Refunding	804,099	635,954	711,294	952,593	653,321	1,964,201
Divestment	—	—	—	—	—	—
Total Long-Term Debt	11,634,570	14,459,895	15,257,800	12,825,810	10,894,380	11,795,180
PREFERRED STOCK:						
New Capital	2,493,830	1,303,750	2,362,000	2,633,848	2,054,700	1,959,641
Refunding	40,000	—	7,500	75,300	127,405	142,440
Divestment	—	—	—	—	—	—
Total Preferred	2,533,830	1,303,750	2,369,500	2,709,148	2,182,105	2,102,081
COMMON STOCK:						
New Capital	6,602,588	5,265,997	4,455,219	3,965,252	3,497,383	4,799,860
Refunding	21,103	—	—	76,556	64,150	5,000
Divestment	—	—	—	235,227	—	—
Total Common	6,623,691	5,265,997	4,455,219	4,277,035	3,561,533	4,804,860
TOTAL CAPITAL:						
New Capital	19,926,889	20,393,688	21,363,725	18,472,317	15,793,142	16,590,480
Refunding	865,202	635,954	718,794	1,104,449	844,876	2,111,641
Divestment	—	—	—	235,227	—	—
Total Capital	$20,792,091	$21,029,642	$22,082,519	$19,811,993	$16,638,018	$18,702,121

Classification as to type of utility is based upon predominant source of revenue. *Includes gas pipe line companies

† "Other Utilities" are water, transit, telephone and telegraph. Does not include railroads.

Note: Includes negotiated sales of pollution control bonds: 1982, $1,727 million; 1981, $1,767 million; 1980, $982.4 million; 1979, $1,297.8 million; 1978, $966.6 million; and 1977, $1,804.2 million.

Source: Ebasco Business Consulting Co.

TABLE 76

WEIGHTED AVERAGE OF YIELDS ON NEWLY ISSUED DOMESTIC BONDS AND PREFERRED STOCKS

1962–1982

	Utility Bonds					Preferred Stocks
Year	Electric and Gas	Telephone	Water Works	All Utilities	Industrial Bonds	All Utilities
1982	**14.87%**	**14.21%**	....	**14.56%**	**13.65%**	**14.47%**
1981	16.31	15.45	....	16.30	15.16	15.11
1980	13.46	12.59	....	13.09	11.66	12.28
1979	10.85	10.29	....	10.64	9.49	9.76
1978	9.30	9.07	....	9.22	8.98	9.03
1977	8.43	8.21	....	8.38	8.15	8.43
1976	8.92	8.41	....	8.80	8.61	9.12
1975	9.97	9.27	....	9.76	9.12	10.63
1974	9.59	9.22	....	9.21	8.87	9.95
1973	7.91	7.87	....	7.88	7.86	7.50
1972	7.50	7.36	....	7.46	7.51	7.53
1971	7.72	7.58	....	7.71	7.80	7.74
1970	8.79	8.75	....	8.85	8.86	9.01
1969	7.98	8.00	....	7.99	7.84	7.75
1968	6.80	6.55	7.17%	6.72	6.64	6.44
1967	6.07	5.77	6.01	6.01	5.79	6.03
1966	5.53	5.51	5.02	5.61	5.52	5.37
1965	4.61	4.61	4.79	4.68	4.80	....
1964	4.55	4.55	4.61	4.56	4.51	4.74
1963	4.40	4.29	4.90	4.39	4.42	4.72
1962	4.40	4.55	4.89	4.44	4.53	4.63

Source: Moody's Investors Service.

TABLE 77
MOODY'S AVERAGE YIELDS ON UTILITY BONDS AND STOCKS
BY MOODY'S BOND RATINGS AND STOCK QUALITY GROUPS
1972–1982

	BONDS					PREFERRED STOCKS			COMMON STOCKS					
	Over-all*	Rating				aa	a	baa	High Quality		Good Quality		Medium Quality	
End of Month	Average	Aaa	Aa	A	Baa	High Quality	Good Quality	Medium Quality	Yield	E/P Ratio†	Yield	E/P Ratio†	Yield	E/P Ratio†
1982														
December	13.50%	12.30%	12.68%	14.37%	14.65%	11.63%	12.20%	13.26%	9.22%	15.20%	10.56%	14.77%	11.43%	14.79%
September	14.39	12.97	13.76	15.31	15.52	12.84	13.49	14.11	9.64	15.91	11.30	15.78	12.15	16.17
June	16.37	15.55	16.04	16.56	17.32	14.30	14.69	15.67	10.08	14.13	11.96	15.95	13.03	17.33
March	16.19	15.15	15.62	16.64	17.35	14.44	14.81	15.48	10.09	16.74	11.53	15.96	12.74	16.72
1981														
December	16.23	14.88	15.90	16.68	17.45	14.97	15.47	15.83	11.01	16.19	11.72	14.43	13.53	17.58
September	17.56	16.74	17.43	17.84	18.21	14.68	15.28	16.01	11.52	16.74	12.01	14.73	13.96	18.07
June	15.49	14.47	15.06	15.84	16.60	13.75	14.15	15.02	10.94	15.78	11.70	14.05	12.88	16.95
March	14.86	13.96	14.61	15.17	15.69	13.35	13.72	14.57	11.71	16.51	12.20	15.21	13.30	17.63
1980														
December	14.11	13.18	13.91	14.14	15.20	13.15	14.01	14.56	11.49	15.65	12.36	16.86	13.27	17.01
September	13.68	12.91	13.49	13.74	14.58	12.02	12.92	13.76	11.37	15.46	11.83	16.01	12.77	15.71
June	12.04	11.30	11.84	12.22	12.81	10.59	10.97	12.05	10.24	13.41	10.65	14.36	11.52	13.22
March	14.57	13.35	14.57	14.96	15.41	13.09	14.74	15.22	12.15	15.50	12.52	18.27	13.93	19.11
1979														
December	11.85	11.09	11.62	11.97	12.71	10.86	11.49	12.75	10.57	15.89	11.00	15.61	12.23	14.86
September	10.39	9.75	10.10	10.62	11.08	9.60	10.34	10.97	9.81	14.82	10.37	15.29	10.92	13.71
June	9.90	9.39	9.73	10.04	10.45	9.03	9.55	10.49	9.18	13.87	9.83	14.24	10.31	12.93
March	10.02	9.60	9.90	10.06	10.51	9.10	9.63	10.33	9.13	13.73	9.66	14.16	10.04	13.04
1978														
December	9.82	9.47	9.65	9.84	10.31	8.94	9.65	10.48	9.38	13.19	9.89	13.89	10.01	12.77
September	9.23	8.91	9.15	9.29	9.57	8.43	8.82	9.62	8.37	11.80	8.88	12.82	9.15	11.99
June	9.36	8.99	9.24	9.46	9.73	8.84	9.39	9.81	8.35	11.87	8.95	12.74	9.20	12.41
March	8.97	8.61	8.80	8.99	9.47	8.35	8.79	9.24	8.35	12.46	8.82	12.66	8.86	11.39
1977														
December	8.75	8.39	8.63	8.77	9.21	8.14	8.59	9.03	7.55	12.32	8.04	12.30	8.43	11.27
September	8.47	8.12	8.37	8.48	8.89	7.95	8.32	8.87	7.29	12.49	7.83	11.96	8.25	11.84
June	8.46	8.07	8.29	8.52	8.97	8.03	8.47	8.92	7.23	12.34	7.57	11.45	8.23	11.86
March	8.70	8.26	8.55	8.77	9.22	8.21	8.75	9.01	7.32	13.01	7.74	12.04	8.68	12.77
1976														
December	8.54	8.05	8.37	8.59	9.16	8.28	8.80	9.15	7.18	11.36	7.79	11.73	8.23	11.17
September	8.87	8.57	8.65	8.81	9.45	8.58	9.04	9.45	7.39	11.31	7.82	11.44	8.60	11.26
June	9.36	8.87	9.08	9.43	10.06	8.92	9.46	9.79	8.40	12.72	8.84	12.99	9.28	12.15
March	9.34	8.67	9.07	9.58	10.04	8.92	9.52	9.73	8.13	11.99	8.51	13.08	9.11	12.15
1975														
December	9.79	8.94	9.44	10.03	10.75	9.41	10.39	10.67	7.47	10.75	7.85	11.04	9.61	14.18
September	10.01	9.25	9.66	10.24	10.90	9.78	10.71	11.11	8.34	12.05	8.78	12.30	11.01	15.64
June	9.79	8.99	9.37	9.97	10.84	9.34	10.88	11.12	7.22	10.54	8.07	11.03	10.18	13.25
March	9.72	8.99	9.29	9.83	10.75	9.31	10.48	11.00	8.23	12.19	9.31	12.96	12.46	14.89
1974														
December	10.13	9.08	9.47	10.44	11.52	10.17	11.20	11.72	8.88	13.61	10.81	17.95	15.51	18.49
September	10.28	9.54	10.12	10.64	10.80	10.41	10.94	11.70	9.05	14.22	10.62	17.60	14.00	16.91
June	9.22	8.71	9.06	9.50	9.60	9.32	9.64	10.00	8.79	13.47	10.16	15.86	12.16	15.48
March	8.56	8.25	8.48	8.60	8.92	8.06	8.61	8.74	7.51	11.51	7.99	11.70	8.66	11.19
1973														
December	8.21	7.90	8.10	8.24	8.59	8.04	8.35	8.24	8.06	11.27	8.24	11.19	7.75	10.91
September	8.07	7.76	7.92	8.08	8.52	7.72	8.04	8.08	6.84	9.52	6.92	10.32	7.08	9.97
June	7.73	7.53	7.63	7.78	7.97	7.53	7.62	7.75	6.88	9.65	6.93	10.19	7.26	10.38
March	7.67	7.44	7.52	7.69	8.01	7.39	7.53	7.60	6.42	9.34	6.69	9.83	6.72	9.80
1972														
December	7.48	7.29	7.39	7.51	7.74	7.32	7.56	7.77	5.52	8.07	6.07	8.91	6.27	9.05
September	7.63	7.42	7.50	7.64	7.96	7.37	7.61	7.82	6.12	9.18	6.47	9.72	6.94	9.58
June	7.77	7.41	7.57	780	8.30	7.28	7.43	7.71	6.37	9.31	6.73	9.93	6.72	9.40
March	7.81	7.53	7.69	7.76	8.25	6.99	7.26	7.58	5.96	8.55	6.23	8.88	6.42	8.87

Note: Yields shown under preferred stocks and common stocks represent averages of ten companies in each quality group.

*Average yield for 40 utility bonds, ten in each of the four top quality ratings shown.

†Ratio in percent is obtained by dividing earnings per share by market price per share.

Source: Moody's Investors Service.

TABLE 78
MOODY'S 24 UTILITY COMMON STOCKS—END-OF-MONTH AVERAGES

Year	Average	January	February	March	April	May	June	July	August	September	October	November	December
MARKET PRICE—WEIGHTED AVERAGE—$ PER SHARE													
1983	...	**72.73**	**73.59**	**73.79**	**75.39**	**75.35**	**71.73**	**72.19**	**72.50**	...	...	...	...
1982	63.56	57.95	60.16	60.77	63.15	63.23	61.15	59.16	66.63	66.10	66.83	67.34	70.26
1981	55.41	53.19	52.61	54.43	53.43	54.00	56.04	56.33	56.82	54.99	56.01	59.83	57.20
1980	54.80	54.57	49.93	50.16	57.14	58.51	60.08	57.83	56.40	54.51	52.63	51.44	54.42
1979	60.28	63.99	62.14	62.36	58.69	60.35	61.03	61.41	62.05	59.79	55.84	59.27	56.41
1978	63.54	65.23	64.66	64.95	63.46	63.77	63.56	65.39	65.16	64.90	60.10	61.54	59.75
DIVIDEND RATE—WEIGHTED AVERAGE—$ PER SHARE													
1983	...	**7.73**	**7.75**	**7.76**	**7.80**	**7.86**	**7.86**	**7.87**	**7.87**	...	...	...	...
1982	7.43	7.20	7.22	7.31	7.32	7.42	7.44	7.48	7.48	7.55	7.56	7.57	7.64
1981	6.99	6.83	6.85	6.85	6.87	6.91	6.96	6.99	6.99	7.13	7.13	7.15	7.16
1980	6.58	6.45	6.52	6.52	6.53	6.56	6.58	6.59	6.60	6.65	6.65	6.67	6.67
1979	6.22	6.07	6.07	6.16	6.16	6.17	6.20	6.22	6.26	6.31	6.32	6.33	6.34
1978	5.81	5.76	5.77	5.77	5.78	5.78	5.79	5.80	5.80	5.83	5.83	5.87	5.98
YIELD—%													
1983	...	**10.66**	**10.53**	**10.52**	**10.35**	**10.43**	**10.96**	**10.90**	**10.86**	...	...	...	...
1982	11.69	12.42	12.00	12.03	11.59	11.73	12.17	12.64	11.23	11.42	11.31	11.24	10.37
1981	12.62	12.84	13.02	12.59	12.86	12.80	12.42	12.41	12.30	12.97	12.73	11.95	12.52
1980	12.01	11.82	13.06	13.00	11.43	11.21	10.95	11.40	11.70	12.20	12.64	12.97	12.26
1979	10.34	9.49	9.77	9.88	10.50	10.22	10.16	10.13	10.09	10.55	11.32	10.68	11.24
1978	9.14	8.83	8.92	8.88	9.11	9.06	9.11	8.87	8.90	8.98	9.70	9.54	10.01

EARNINGS—WEIGHTED AVERAGE—$ PER SHARE

	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
1983	**10.87**	...	...	...
1982	10.52	10.80	11.06	10.90
1981	9.35	9.59	10.11	10.16
1980	8.69	8.58	8.75	8.98
1979	8.87	8.88	9.20	8.95
1978	8.27	8.37	8.36	8.59

Note: Quarterly earnings are for the 12 months ended March 31, June 30, September 30 and December 31.
Source: Moody's Investors Service.

ECONOMICS AND OTHER

SECTION X

TABLE 82
CONSUMER PRICE INDEX, 1959–1982
1967 Equals 100

	All Items		Food and Beverages		Housing	
Year	Index	% Change from Previous Year	Index	% Change from Previous Year	Index	% Change from Previous Year
1982*	**289.1**	**6.1**	**278.2**	**4.1**	**314.7**	**7.2**
1981*	272.4	10.4	267.3	7.8	293.5	11.5
1980*	246.8	13.5	248.0	8.5	263.3	15.8
1979*	217.4	11.3	228.5	10.8	227.6	12.2
1978*	195.4	7.7	206.3	9.7	202.8	8.7
1977	181.5	6.5	188.0	6.0	186.5	6.8
1976	170.5	5.8	177.4	3.1	174.6	6.1
1975	161.2	9.1	172.1	8.4	164.5	10.6
1974	147.7	11.0	158.7	13.8	148.8	11.3
1973	133.1	6.2	139.5	13.2	133.7	4.4
1972	125.3	3.3	123.2	4.1	128.1	3.8
1971	121.3	4.3	118.3	3.1	123.4	4.4
1970	116.3	5.9	114.7	5.4	118.2	7.1
1969	109.8	5.4	108.8	5.0	110.4	6.2
1968	104.2	4.2	103.6	3.6	104.0	4.0
1967	100.0	2.9	100.0	...	100.0	2.9
1966	97.2	2.9	...	...	97.2	2.4
1965	94.5	1.7	...	...	94.9	1.2
1964	92.9	1.3	...	...	93.8	1.2
1963	91.7	1.2	...	...	92.7	1.1
1962	90.6	1.1	...	...	91.7	0.9
1961	89.6	1.0	...	...	90.9	0.8
1960	88.7	1.6	...	...	90.2	1.8
1959	87.3	0.8	...	...	88.6	1.0

	Transportation		Gas and Electricity		Electricity	
Year	Index	% Change from Previous Year	Index	% Change from Previous Year	Index	% Change from Previous Year
1982*	**291.5**	**4.1**	**393.8**	**13.8**	**320.3**	**9.9**
1981*	280.0	12.1	345.9	14.6	291.5	15.0
1980*	249.7	17.8	301.8	17.1	253.4	15.7
1979*	212.0	14.3	257.8	10.8	219.1	7.7
1978*	185.5	4.7	232.6	9.0	203.4	7.4
1977	177.2	7.1	213.4	12.9	189.3	6.6
1976	165.5	9.9	189.0	11.4	177.6	6.3
1975	150.6	9.4	169.6	16.3	167.0	13.2
1974	137.7	11.2	145.8	15.3	147.5	18.1
1973	123.8	3.3	126.4	4.9	124.9	5.0
1972	119.9	1.1	120.5	5.1	118.9	5.0
1971	118.6	5.2	114.7	6.9	113.2	5.6
1970	112.7	5.1	107.3	4.4	106.2	3.3
1969	107.2	3.9	102.8	1.9	102.8	1.9
1968	103.2	3.2	100.9	0.9	100.9	0.9
1967	100.0	2.9	100.0	0.4	100.0	0.9
1966	97.2	1.4	99.6	0.2	99.1	0.0
1965	95.9	1.7	99.4	0.0	99.1	(0.5)
1964	94.3	1.4	99.4	0.0	99.6	(0.5)
1963	93.0	0.5	99.4	0.0	100.1	0.0
1962	92.5	2.1	99.4	0.0	100.1	0.0
1961	90.6	1.1	99.4	0.8	100.1	0.3
1960	89.6	0.0	98.6	4.1	99.8	1.3
1959	89.6	4.2	94.7	2.5	98.5	1.4

*Data beginning 1978 are for All Urban Consumers; earlier data are for Urban Wage Earners and Clerical Workers.

( ) Denotes negative figure.

Source: U.S. Bureau of Labor Statistics.

TABLE 83
RESIDENTIAL ELECTRICITY AND CONSUMER PRICE INDEX
TOTAL ELECTRIC UTILITY INDUSTRY*

Year	Average Revenue per Residential Kwhr Used	Average Rate per Kwhr Based on Average of Typical Bills in Cities** Price per Kwhr for Monthly Use of: (Energy Information Administration)					U.S. Bureau of Labor Statistics Index Numbers Based on 1967 = 100†	
		100 Kwhr	250 Kwhr	500 Kwhr	750 Kwhr	1,000 Kwhr	Electricity	Consumer Price Index
1982	**6.45¢p**	....	....	....	....	....	**320.3**	**289.1**
1981	5.80r	....	8.01¢	7.45¢	6.72¢	6.68¢	291.5	272.4
1980	5.12	....	7.10	6.52	5.87	5.82	253.4	246.8
1979	4.43	....	6.11	5.56	4.92	4.87	219.1	217.4
1978	4.03	7.10¢	5.54	4.61	4.36	4.31	203.4	195.4
1977	3.78	6.87	5.39	4.44	4.16	4.10	189.3	181.5
1976	3.45	6.54	5.14	4.17	3.90	3.82	177.6	170.5
1975	3.21	6.15	4.82	3.85	3.57	3.49	167.0	161.2
1974	2.83	5.89	4.60	3.59	3.30	3.23	147.5	147.7
1973	2.38	4.99	3.79	2.82	2.55	2.49	124.9	133.1
1972	2.29	4.65	3.47	2.51	2.26	2.19	118.9	125.3
1971	2.19	4.51	3.34	2.40	2.15	2.07	113.2	121.3
1970	2.10	4.25	3.14	2.23	2.00	1.92	106.2	116.3
1969	2.09	4.09	3.00	2.10	1.90	1.83	102.8	109.8
1968	2.12	4.05	2.96	2.06	1.86	1.80	100.9	104.2
1967	2.17	4.03	2.95	2.07	1.89	1.83	100.0	100.0
1966	2.20	4.03	2.95	2.07	1.89	1.83	99.1	97.2
1965	2.25	4.00	2.94	2.07	1.89	1.83	99.1	94.5
1964	2.31	4.02	2.95	2.08	1.91	1.86	99.6	92.9
1963	2.37	4.03	2.97	2.12	1.93	1.89	100.1	91.7
1962	2.41	4.06	2.99	2.13	1.95	....	100.1	90.6

*Alaska and Hawaii included since 1964.

**As determined by the Energy Information Administration in its "Typical Electric Bills." The figures cover rate schedules as of December 31 in all cities with populations of 2,500 or more.

†"Index numbers" are percentages of the base year 1967. For a description of the components and characteristics of this Index, see BLS Handbook of Methods, Bulletin #1711 for 1971. Data beginning 1978 are for All Urban Consumers; earlier data are for Urban Wage Earners and Clerical Workers. p Preliminary. r Revised.

TABLE 84
PRODUCER PRICE INDEX—ALL ITEMS AND SELECTED INDUSTRIAL COMMODITIES
1967 Equals 100

	All Items		Metals and Metal Products		Machinery and Equipment		Furniture and Household Durables		Fuels and Related Products and Power	
Year	Index	% Change from Previous Year	Index	% Change from Previous Year	Index	% Change from Previous Year	Index	% Change from Previous Year	Index	% Change from Previous Year
1982	**299.3**	**2.0**	**301.8**	**0.5**	**278.7**	**5.9**	**206.8**	**4.2**	**693.4**	**(0.1)**
1981	293.4	9.2	300.4	4.9	263.1	9.7	198.4	5.7	694.4	21.0
1980	268.8	14.1	286.4	10.5	239.8	12.1	187.7	9.6	574.0	40.7
1979	235.6	12.6	259.3	14.2	213.9	9.1	171.3	6.8	408.1	26.5
1978	209.3	7.8	227.1	8.7	196.1	7.9	160.4	5.9	322.5	6.7
1977	194.2	6.1	209.0	6.7	181.7	6.3	151.5	4.1	302.2	13.8
1976	183.0	4.6	195.9	5.5	171.0	5.9	145.6	4.2	265.6	8.4
1975	174.9	9.2	185.6	8.0	161.4	15.8	139.7	9.2	245.1	17.7
1974	160.1	18.9	171.9	29.4	139.4	14.5	127.9	11.0	208.3	55.1
1973	134.7	13.1	132.8	7.5	121.7	3.2	115.2	3.4	134.3	13.8
1972	119.1	4.5	123.5	4.0	117.9	2.1	111.4	1.3	118.6	3.0
1971	114.0	3.3	118.7	1.8	115.5	3.7	110.0	2.3	115.2	8.5
1970	110.4	3.7	116.6	7.5	111.4	4.6	107.5	2.5	106.2	5.3
1969	106.5	3.9	108.5	5.8	106.5	3.2	104.9	2.0	100.9	2.0
1968	102.5	2.5	102.6	2.6	103.2	3.2	102.8	2.8	98.9	(1.1)
1967	100.0	0.1	100.0	1.2	100.0	3.3	100.0	2.0	100.0	2.2
1966	99.8	3.3	98.8	2.5	96.8	3.1	98.0	1.1	97.8	2.4
1965	96.6	2.0	96.4	2.8	93.9	1.1	96.9	(0.5)	95.5	1.9
1964	94.7	0.2	93.8	2.7	92.8	0.7	97.4	0.4	93.7	(2.7)
1963	94.5	(0.3)	91.3	0.1	92.2	0.1	97.0	(0.7)	96.3	(0.4)
1962	94.8	0.3	91.2	(0.8)	92.0	0.2	97.7	(0.7)	96.7	(0.5)

	Coal		Gas Fuels		Electric Power		Crude Petroleum		Petroleum Products, Refined	
Year	Index	% Change from Previous Year	Index	% Change from Previous Year	Index	% Change from Previous Year	Index	% Change from Previous Year	Index	% Change from Previous Year
1982	**535.3**	**7.6**	**1,061.2**	**12.9**	**406.6**	**10.9**	**733.5**	**(8.7)**	**761.5**	**(5.5)**
1981	497.3	6.4	939.8	23.5	366.8	14.1	803.6	44.4	805.8	19.4
1980	467.3	3.6	760.7	39.8	321.6	18.7	556.4	47.8	674.7	51.7
1979	450.9	4.9	544.1	26.9	270.9	8.1	376.5	25.4	444.8	38.6
1978	430.0	10.4	428.7	10.5	250.6	7.6	300.1	9.4	321.0	4.2
1977	389.4	5.6	387.8	35.2	232.9	12.1	274.2	8.1	308.2	11.4
1976	368.7	(4.4)	286.8	32.3	207.6	7.4	253.6	3.2	276.6	7.4
1975	385.8	16.1	216.7	33.6	193.4	18.6	245.7	16.0	257.5	15.3
1974	332.4	52.4	162.2	28.0	163.1	26.1	211.8	68.1	223.4	73.5
1973	218.1	12.5	126.7	11.0	129.3	6.4	126.0	10.7	128.7	18.2
1972	193.8	6.5	114.1	5.2	121.5	4.6	113.8	(0.7)	108.9	1.6
1971	182.0	21.1	108.5	4.7	116.2	9.7	114.6	8.0	107.2	6.1
1970	150.3	33.5	103.6	11.0	105.9	4.0	106.1	0.9	101.0	1.4
1969	112.6	8.6	93.3	0.5	101.8	0.9	105.2	4.4	99.6	1.5
1968	103.7	3.7	92.7	(7.3)	100.9	0.9	100.8	0.8	98.1	(1.9)
1967	100.0	4.7	100.0	3.5	100.0	0.4	100.0	1.1	100.0	2.7
1966	95.5	2.2	96.7	4.2	99.6	(0.5)	98.9	0.7	97.4	3.8
1965	93.4	(0.4)	92.8	2.3	100.1	(0.3)	98.2	(0.1)	93.8	3.4
1964	93.8	0.0	90.7	(1.2)	100.4	(0.9)	98.3	(0.4)	90.7	(4.6)
1963	93.8	0.1	91.8	2.9	101.3	(0.8)	98.7	(0.4)	95.1	(1.0)
1962	93.7	(1.0)	89.2	0.6	102.1	0.4	99.1	0.2	96.1	(1.1)

( ) Denotes negative figure.
Source: U.S. Bureau of Labor Statistics.

TABLE 85
COST TRENDS OF ELECTRIC LIGHT AND POWER CONSTRUCTION*
BY GEOGRAPHIC DIVISIONS—1962–1983
1973 EQUALS 100

Date	North Atlantic	South Atlantic	North Central	South Central	Plateau	Pacific
Jan. 1, 1983	226	230	231	239	240	250
July 1, 1982	222	227	229	234	236	247
Jan. 1, 1982r	218	222	224	231	232	240
July 1, 1981	209	218	215	222	222	230
Jan. 1, 1981	203	210	208	214	216	225
July 1, 1980	193	197	196	203	202	209
Jan. 1, 1980	186	191	190	195	197	200
July 1, 1979	178	182	181	187	188	192
Jan. 1, 1979	168	174	173	178	179	181
July 1, 1978	161	165	165	169	170	173
Jan. 1, 1978	156	161	159	164	166	168
July 1, 1977	154	158	157	162	163	165
Jan. 1, 1977	147	152	149	155	155	157
July 1, 1976	145	148	146	151	152	151
Jan. 1, 1976	140	144	141	146	145	146
July 1, 1975	138	140	140	142	143	141
Jan. 1, 1975	130	133	132	134	133	132
July 1, 1974	119	120	120	122	120	120
Jan. 1, 1974	105	105	104	105	105	105
July 1, 1973	100	99	100	100	100	100
Jan. 1, 1973	95	96	96	95	96	96
July 1, 1972	93	94	94	93	94	94
Jan. 1, 1972	92	91	94	91	92	93
July 1, 1971	87	88	90	89	90	88
Jan. 1, 1971	83	84	86	85	85	85
July 1, 1970	81	81	84	83	82	83
Jan. 1, 1970	77	79	80	80	80	80
July 1, 1969	74	76	77	77	76	77
Jan. 1, 1969	72	73	74	74	74	74
July 1, 1968	70	70	71	72	72	73
Jan. 1, 1968	69	70	71	72	72	72
July 1, 1967	68	68	69	70	71	71
Jan. 1, 1967	67	67	67	68	68	69
July 1, 1966	66	66	66	67	67	68
Jan. 1, 1966	64	65	65	66	66	67
July 1, 1965	64	64	65	65	66	66
Jan. 1, 1965	63	63	63	64	65	65
July 1, 1964	62	62	63	63	64	64
Jan. 1, 1964	61	62	62	62	63	
July 1, 1963	60	61	61	61	62	62
Jan. 1, 1963	60	60	61	61	63	62
July 1, 1962	60	61	61	61	63	62
Jan. 1, 1962	59	60	61	61	62	62

r Revised.

*Index numbers shown are a composite of over 50 material and labor items included in the Handy-Whitman index service of cost indexes of construction and equipment, all steam.

Source: Handy-Whitman Index of Public Utility Construction Costs. Published by courtesy of Whitman, Requardt and Associates, Baltimore, Maryland, 21202.

TABLE 86
COST OF INDUSTRIAL PURCHASED ELECTRIC POWER AS A PERCENT OF VALUE OF PRODUCT SHIPMENT
U.S. AVERAGE 1975–1980

Standard Industrial Classification	Industry	1980	1979	1978	1977	1976	1975
20	Food and Kindred Products	0.7	0.6	0.7	0.6	0.6	0.5
21	Tobacco Manufactures	0.5	0.4	0.4	0.4	0.3	0.3
22	Textile Mill Products	1.8	1.8	1.8	1.7	1.7	1.7
23	Apparel and Other Textile Products	0.7	0.6	0.7	0.5	0.5	0.5
24	Lumber and Wood Products	1.1	1.0	1.0	1.0	1.0	1.1
25	Furniture and Fixtures	0.8	0.8	0.8	0.8	0.8	0.7
26	Paper and Allied Products	3.3	3.1	3.1	3.0	2.7	2.7
27	Printing and Publishing	0.7	0.6	0.7	0.6	0.6	0.6
28	Chemicals and Allied Products	2.8	2.8	2.8	2.7	2.6	2.5
29	Petroleum and Coal Products	0.7	0.7	0.8	0.8	0.7	0.7
30	Rubber and Miscellaneous Plastics Products	1.9	1.7	1.7	1.6	1.5	1.6
31	Leather and Leather Products	0.7	0.6	0.6	0.7	0.6	0.6
32	Stone, Clay and Glass Products	2.5	2.3	2.3	2.3	2.2	2.2
33	Primary Metal Industries	3.5	3.2	3.2	3.0	2.7	2.7
34	Fabricated Metal Products	1.0	0.9	0.9	0.9	0.9	0.8
35	Machinery, Except Electrical	0.7	0.7	0.7	0.7	0.7	0.7
36	Electric and Electronic Equipment	0.9	0.8	0.8	0.8	0.8	0.8
37	Transportation Equipment	0.7	0.5	0.5	0.5	0.5	0.6
38	Instruments and Related Products	0.6	0.6	0.6	0.6	0.6	0.6
39	Miscellaneous Manufacturing Industries	0.7	0.7	0.7	0.7	0.7	0.7
	Total Manufacturing	1.4	1.3	1.2	1.2	1.2	1.2

Source: U.S. Department of Commerce, Annual Survey of Manufactures. Fuels and Electric Energy Consumed (AS) 4.1, and Value of Product Shipments (AS) 2.

TABLE 87
WEIGHTED AVERAGE ELECTRIC BILLS (DOLLARS)
BY CENSUS DIVISION AND CERTAIN CLASS OF SERVICE
1981–1982

Residential Service

	January 1, 1982					January 1, 1981				
Division	250 Kwh	500 Kwh	750 Kwh	1,000 Kwh	2,500 Kwh	250 Kwh	500 Kwh	750 Kwh	1,000 Kwh	2,500 Kwh
New England	$24.04	$43.70	$58.69	$77.66	$184.89	$23.80	$43.76	$57.89	$76.57	$184.66
Middle Atlantic	27.89	51.19	67.75	90.35	216.33	24.17	43.91	58.50	77.56	185.16
East North Central	17.70	33.24	44.21	59.03	124.05	16.57	30.45	40.06	53.04	112.44
West North Central	17.27	30.82	42.01	54.58	111.40	14.97	27.53	37.38	48.49	97.23
South Atlantic	19.03	33.51	46.74	60.42	139.10	16.66	29.34	40.72	52.60	120.18
East South Central	14.66	26.29	37.47	48.95	113.24	13.80	24.40	34.55	45.01	103.35
West South Central	17.90	31.29	42.09	54.84	117.49	15.73	27.22	36.21	47.16	99.09
Mountain	18.54	32.55	44.56	57.95	130.98	16.31	28.29	38.55	49.99	108.11
Pacific	15.92	35.33	48.91	66.88	185.47	12.88	27.29	38.33	52.76	138.77
Alaska & Hawaii	30.54	55.92	81.13	106.32	257.66	25.61	45.05	64.48	84.19	202.52
U.S. Average	$20.02	$37.26	$50.40	$66.84	$156.12	$17.76	$32.61	$43.99	$58.16	$133.90

Commercial Service

	January 1, 1982					January 1, 1981				
	12 Kw	30 Kw	40 Kw	50 Kw	100 Kw	12 Kw	30 Kw	40 Kw	50 Kw	100 Kw
	1,500 Kwh	6,000 Kwh	10,000 Kwh	12,500 Kwh	30,000 Kwh	1,500 Kwh	6,000 Kwh	10,000 Kwh	12,500 Kwh	30,000 Kwh
New England	$177.32	$586.97	$895.91	$1,101.37	$2,439.00	$171.32	$568.28	$867.64	$1,027.54	$2,349.28
Middle Atlantic	234.34	742.25	1,129.09	1,408.70	3,146.73	197.20	633.63	968.41	1,207.69	2,708.33
East North Central	131.47	465.55	717.86	888.81	1,982.55	119.79	422.27	649.55	798.13	1,781.02
West North Central	108.68	387.74	598.58	740.31	1,631.80	98.27	349.08	541.32	669.73	1,473.99
South Atlantic	119.48	423.20	658.18	814.58	1,815.38	110.34	393.64	610.78	752.81	1,653.43
East South Central	96.09	352.48	561.45	698.76	1,586.42	90.52	328.63	522.62	650.32	1,468.09
West South Central	112.00	393.69	609.37	751.52	1,643.60	98.90	344.53	529.03	651.53	1,420.33
Mountain	112.42	441.36	671.82	826.34	1,800.19	102.29	379.77	585.65	711.56	1,532.01
Pacific	124.76	466.57	754.45	931.04	2,176.89	106.38	391.74	617.28	770.09	1,785.97
Alaska & Hawaii	187.88	671.18	1,092.84	1,361.33	3,214.38	173.81	580.56	895.60	1,111.87	2,445.11
U.S. Average	$147.89	$509.34	$788.80	$ 977.46	$2,191.58	$130.57	$449.41	$693.47	$ 856.02	$1,917.18

Industrial Service

	January 1, 1982				January 1, 1981			
	150 Kw	300 Kw	1,000 Kw	5,000 Kw	150 Kw	300 Kw	1,000 Kw	5,000 Kw
	30,000 Kwh	60,000 Kwh	200,000 Kwh	1,500,000 Kwh	30,000 Kwh	60,000 Kwh	200,000 Kwh	1,500,000 Kwh
New England	$2,526	$4,852	$15,526	$106,207	$2,411	$4,680	$15,114	$103,817
Middle Atlantic	3,468	6,822	21,738	138,484	3,021	5,950	17,108	108,561
East North Central	2,164	4,173	13,519	83,278	1,928	3,729	11,855	72,477
West North Central	1,759	3,421	10,776	67,511	1,633	3,130	9,712	60,071
South Atlantic	2,009	3,961	12,879	77,729	1,818	3,537	11,512	69,137
East South Central	1,859	3,655	11,551	70,051	1,715	3,367	10,597	63,734
West South Central	1,835	3,581	11,326	72,279	1,573	3,056	9,627	60,863
Mountain	1,992	3,842	11,873	74,308	1,694	3,260	10,058	63,430
Pacific	2,282	4,517	15,211	106,309	1,889	3,725	12,057	84,669
Alaska & Hawaii	3,243	6,286	20,283	137,918	2,595	5,050	16,135	106,907
U.S. Average	$2,396	$4,685	$15,097	$ 96,856	$2,114	$4,128	$12,756	$ 81,486

Source: Energy Information Administration, Typical Electric Bills.

TABLE 88

CIRCUIT MILES OF OVERHEAD ELECTRIC LINE OF 22,000 VOLTS AND ABOVE IN SERVICE—TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND VOLTAGE GROUPS

Division/State	Circuit Miles 1982	Circuit Miles 1981	Circuit Miles 1980
Total United States*	**585,149**	**573,015**	**558,795**
Maine	3,662	3,662	3,599
New Hampshire	2,214	2,211	2,227
Vermont	1,978	1,974	1,663
Massachusetts	5,343	5,182	5,184
Rhode Island	700	698	698
Connecticut	2,318	2,308	2,306
New England	**16,215**	**16,035**	**15,677**
New York	20,091	19,947	18,902
New Jersey	6,244	6,211	6,094
Pennsylvania	19,294	18,679	18,368
Middle Atlantic	**45,629**	**44,837**	**43,364**
Ohio	22,015	21,786	21,055
Indiana	15,313	15,313	15,772
Illinois	16,119	16,201	16,209
Michigan	18,964	17,823	17,864
Wisconsin	9,838	9,955	10,042
East North Central	**82,249**	**81,078**	**80,942**
Minnesota	10,371	10,354	10,369
Iowa	11,101	11,087	10,881
Missouri	11,623	11,568	11,497
North Dakota	6,826	6,864	6,731
South Dakota	6,811	6,665	6,660
Nebraska	10,767	9,798	8,704
Kansas	9,894	9,863	9,800
West North Central	**67,393**	**66,199**	**64,642**
Delaware	2,220	2,220	2,267
Maryland and D.C.	8,611	8,626	8,508
Virginia	11,448	11,876	11,844
West Virginia	7,205	7,156	6,999
North Carolina	22,291	21,979	19,074
South Carolina	19,501	19,321	19,159
Georgia	20,492	21,618	21,944
Florida	14,873	14,236	13,948
South Atlantic	**106,641**	**107,032**	**103,743**
Kentucky	11,431	11,916	10,758
Tennessee	24,630	22,520	21,890
Alabama	13,527	13,412	13,322
Mississippi	12,309	12,053	11,655
East South Central	**61,897**	**59,901**	**57,625**
Arkansas	6,148	6,093	6,640
Louisiana	10,883	10,482	10,332
Oklahoma	11,683	10,091	9,860
Texas	43,370	42,817	40,467
West South Central	**72,084**	**69,483**	**67,299**
Montana	9,846	9,088	9,643
Idaho	11,289	10,346	10,559
Wyoming	4,978	4,870	4,884
Colordao	6,887	6,745	6,523
New Mexico	6,072	5,395	5,681
Arizona	14,320	13,769	10,611
Utah	5,769	5,593	5,753
Nevada	6,613	6,725	6,436
Mountain	**65,774**	**62,531**	**60,090**
Washington	16,692	16,092	16,253
Oregon	10,934	10,426	10,079
California	38,192	37,945	37,551
Pacific	**65,818**	**64,463**	**63,883**
Alaska	70	85	85
Hawaii	1,379	1,371	1,445
Alaska & Hawaii	**1,449**	**1,456**	**1,530**

Nominal Voltage	Circuit Miles 1982	Circuit Miles 1981	Circuit Miles 1980
Total	**585,149**	**573,015**	**558,795**
22,000– 30,000	81,535	75,386	68,345
31,000– 40,000	63,900	62,332	58,572
41,000– 50,000	36,518	36,672	44,490
51,000– 70,000	98,455	100,067	99,695
71,000–131,000	94,297	92,495	86,994
132,000–143,000	63,195	62,970	61,693
144,000–188,000	23,902	23,168	22,779
189,000–253,000	61,023	60,501	60,012
254,000–400,000	39,349	36,949	35,451
401,000–600,000	19,757	19,259	17,687
601,000–800,000	3,218	3,216	3,077

*Does not include the following miles of line operated by REA Co-operatives: 1982—68,300; 1981—67,300; 1980—65,700.

TABLE 89

CIRCUIT MILES OF OVERHEAD ELECTRIC LINE OF 22,000 VOLTS AND ABOVE IN SERVICE—INVESTOR-OWNED ELECTRIC UTILITIES

BY STATE AND VOLTAGE GROUPS

Division/State	Circuit Miles 1982	1981	1980
Total United States	**467,072**	**463,453**	**454,328**
Maine	3,625	3,625	3,574
New Hampshire	2,214	2,211	2,227
Vermont	1,948	1,943	1,632
Massachusetts	5,227	5,156	5,158
Rhode Island	700	698	698
Connecticut	2,284	2,274	2,272
New England	**15,998**	**15,907**	**15,561**
New York	18,963	18,783	17,735
New Jersey	6,234	6,201	6,084
Pennsylvania	19,294	18,679	18,368
Middle Atlantic	**44,491**	**43,663**	**42,187**
Ohio	21,959	21,730	20,999
Indiana	15,196	15,273	15,732
Illinois	15,939	15,992	16,006
Michigan	18,921	17,784	17,787
Wisconsin	9,787	9,907	9,998
East North Central	**81,802**	**80,686**	**80,522**
Minnesota	10,034	10,014	10,007
Iowa	10,573	10,578	10,397
Missouri	10,640	10,584	10,615
North Dakota	4,812	4,849	4,716
South Dakota	3,428	3,404	3,399
Nebraska	94	94	94
Kansas	9,777	9,745	9,687
West North Central	**49,358**	**49,268**	**48,915**
Delaware	2,191	2,191	2,247
Maryland and D.C.	8,608	8,626	8,508
Virginia	10,633	11,046	11,032
West Virginia	7,205	7,156	6,999
North Carolina	21,767	21,489	18,594
South Carolina	16,382	16,568	16,524
Georgia	15,805	17,265	18,118
Florida	11,324	11,253	11,104
South Atlantic	**93,915**	**95,594**	**93,126**
Kentucky	7,519	8,007	7,090
Tennessee	237	236	232
Alabama	9,565	9,478	9,444
Mississippi	9,266	9,184	9,046
East South Central	**26,587**	**26,905**	**25,812**
Arkansas	6,088	6,032	5,991
Louisiana	10,694	10,276	10,150
Oklahoma	8,534	7,939	7,765
Texas	39,307	38,878	36,952
West South Central	**64,623**	**63,125**	**60,858**
Montana	7,652	7,577	7,465
Idaho	10,626	10,346	9,896
Wyoming	2,943	2,864	2,878
Colorado	4,417	4,339	4,123
New Mexico	5,887	5,216	5,129
Arizona	6,823	6,412	6,403
Utah	5,585	5,418	5,578
Nevada	4,590	4,734	4,410
Mountain	**48,523**	**46,906**	**45,882**
Washington	3,719	3,583	4,090
Oregon	5,762	5,759	5,456
California	30,913	30,684	30,472
Pacific	**40,394**	**40,026**	**40,018**
Alaska	2	2	2
Hawaii	1,379	1,371	1,445
Alaska & Hawaii	**1,381**	**1,373**	**1,447**

Nominal Voltage	Circuit Miles 1982	1981	1980
Total	**467,072**	**463,453**	**454,328**
22,000– 30,000	52,112	51,019	48,004
31,000– 40,000	57,264	56,498	55,319
41,000– 50,000	32,984	32,396	38,337
51,000– 70,000	82,974	84,335	84,468
71,000–131,000	76,942	76,097	69,889
132,000–143,000	59,804	59,469	58,334
144,000–188,000	10,438	10,745	10,207
189,000–253,000	45,186	45,891	45,155
254,000–400,000	34,331	32,273	30,943
401,000–600,000	12,820	12,513	11,594
601,000–800,000	2,217	2,217	2,078

TABLE 90
AVERAGE NUMBER OF EMPLOYEES—INVESTOR-OWNED ELECTRIC UTILITIES
ELECTRIC DEPARTMENT

Year	Operation and Maintenance	Construction	Total
1982	**388,400**	**116,700**	**505,100**
1981	375,900	114,600	490,500
1980	368,400	108,200	476,600
1979	356,200	106,800	463,000
1978	341,500	103,000	444,500
1977	326,800	99,700	426,500
1976	317,600	99,100	416,700
1975	310,500	101,000	411,500
1974	311,700	107,400	419,100
1973	307,200	107,900	415,100
1972	299,200	102,300	401,500
1971	295,200	98,500	393,700
1970	290,200	94,700	384,900
1969	282,600	89,900	372,500
1968	279,300	86,000	365,300
1967	275,500	81,900	357,400
1966	271,000	78,100	349,100
1965	268,400	77,000	345,400
1964	268,600	72,900	341,500
1963	268,700	70,800	339,500
1962	268,900	70,900	339,800

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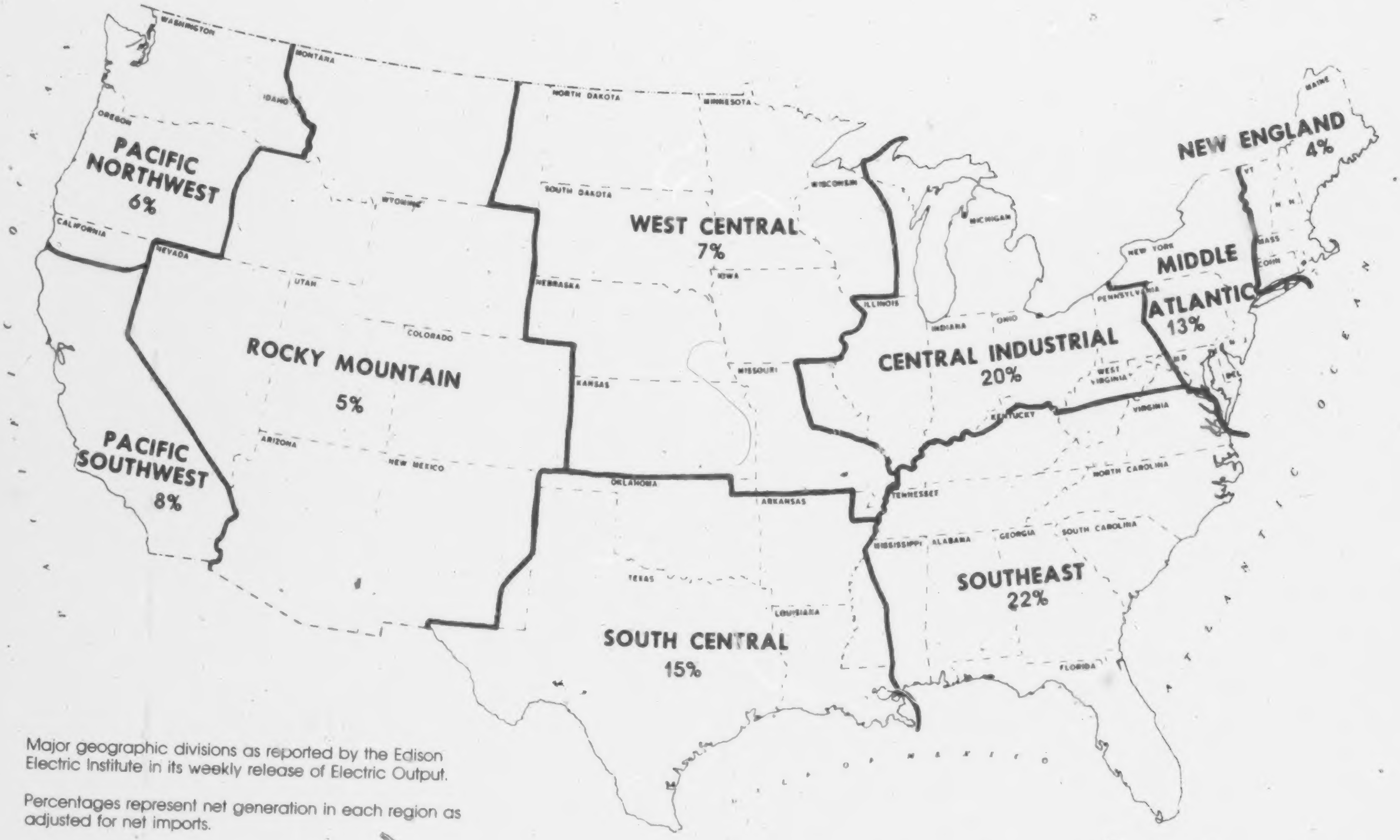
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8%
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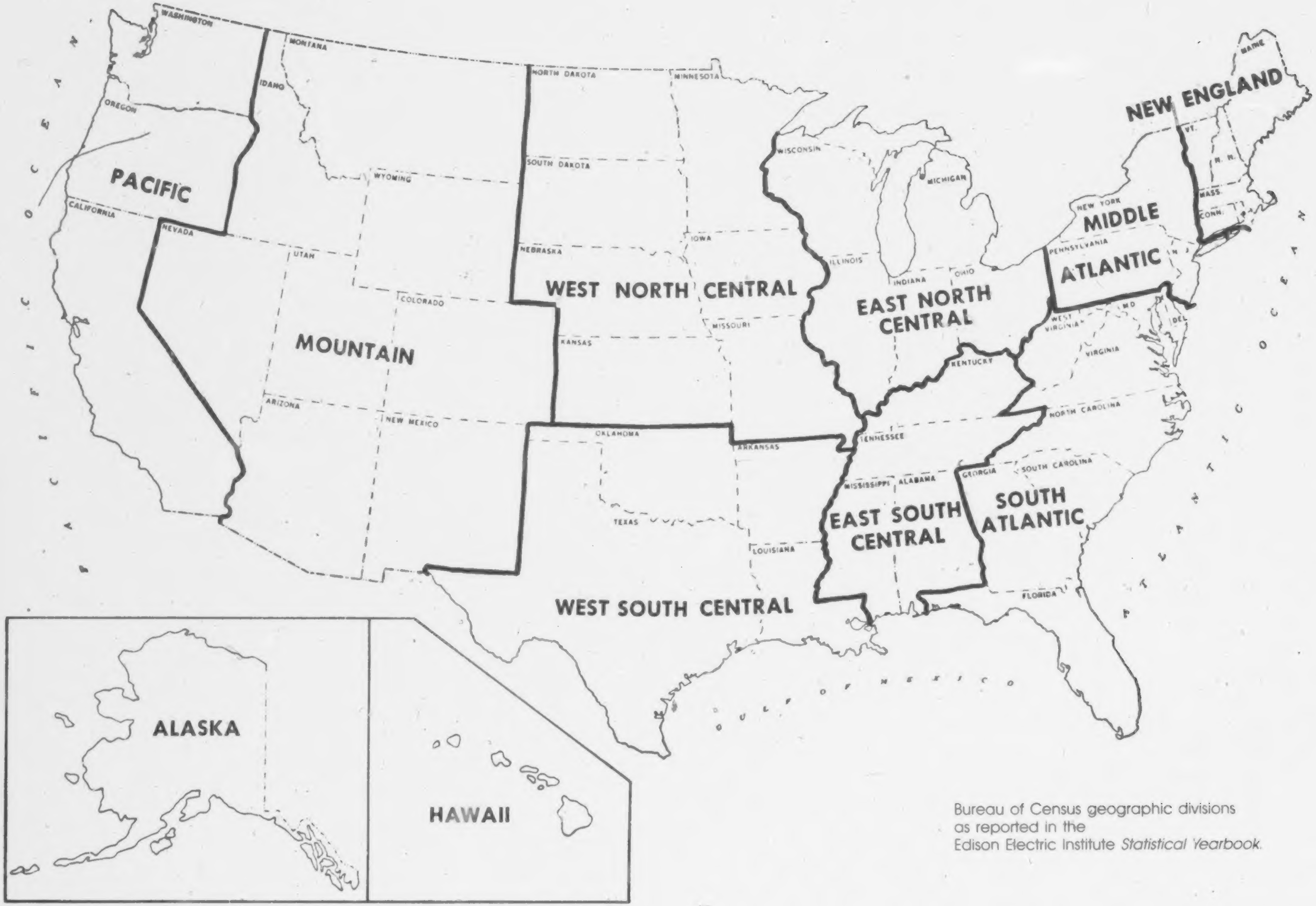
Major geographic divisions as reported by the Edison Electric Institute in its weekly release of Electric Output.

Percentages represent net generation in each region as adjusted for net imports.

January 1, 1983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